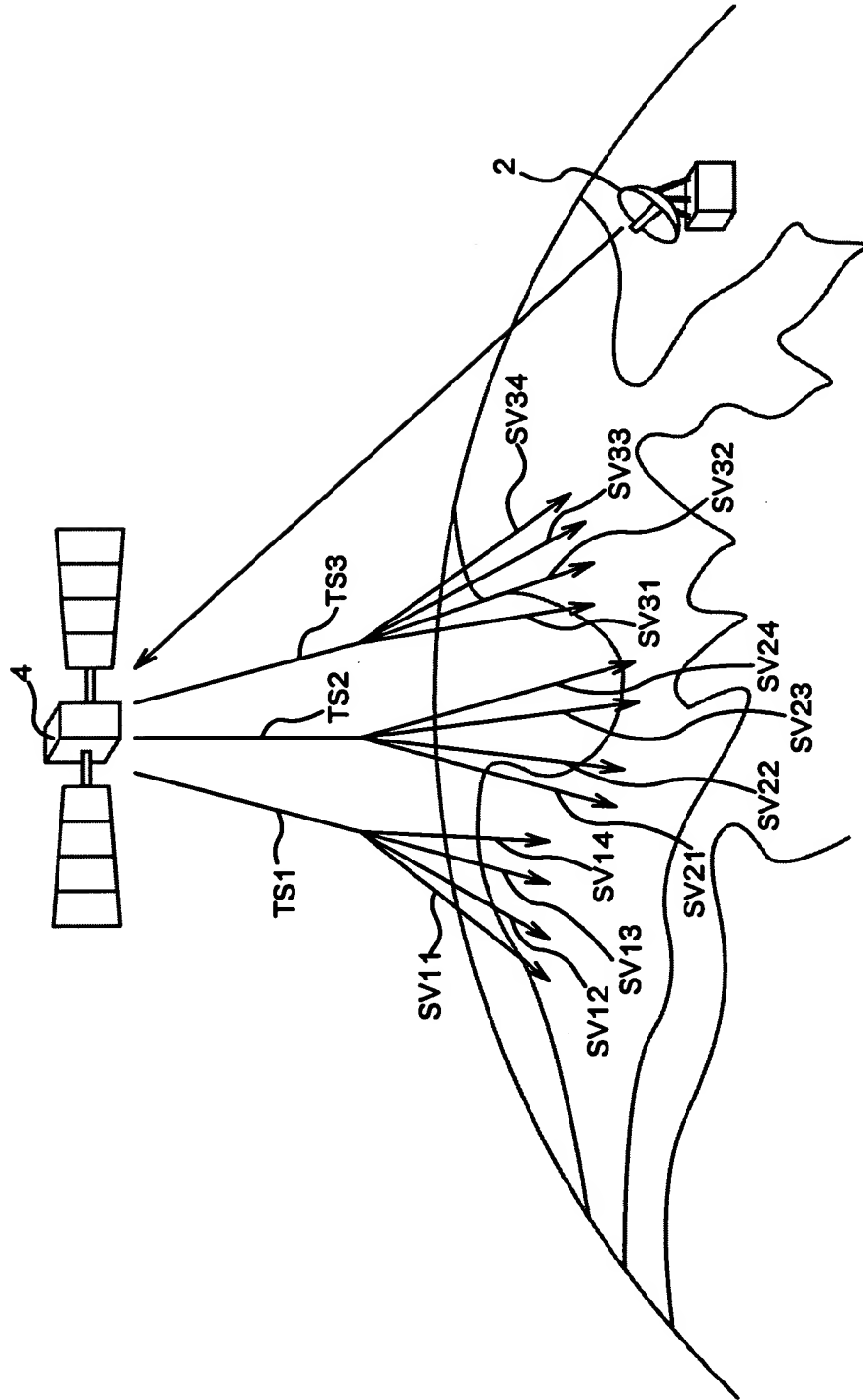


PRIOR ART

FIG.1 RADIO WAVE TRANSMISSION STATUS IN SATELLITE BROADCAST
(CONCEPTUAL ILLUSTRATION)



PRIOR ART

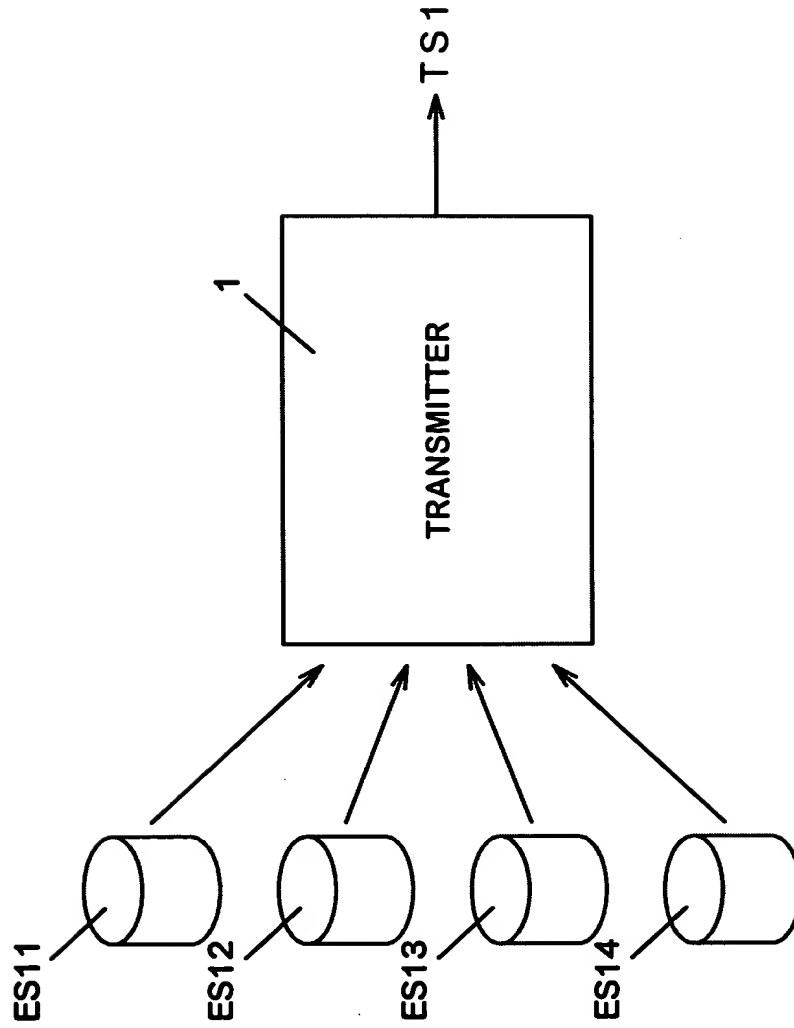


FIG.2

FIG.3

PRIOR ART

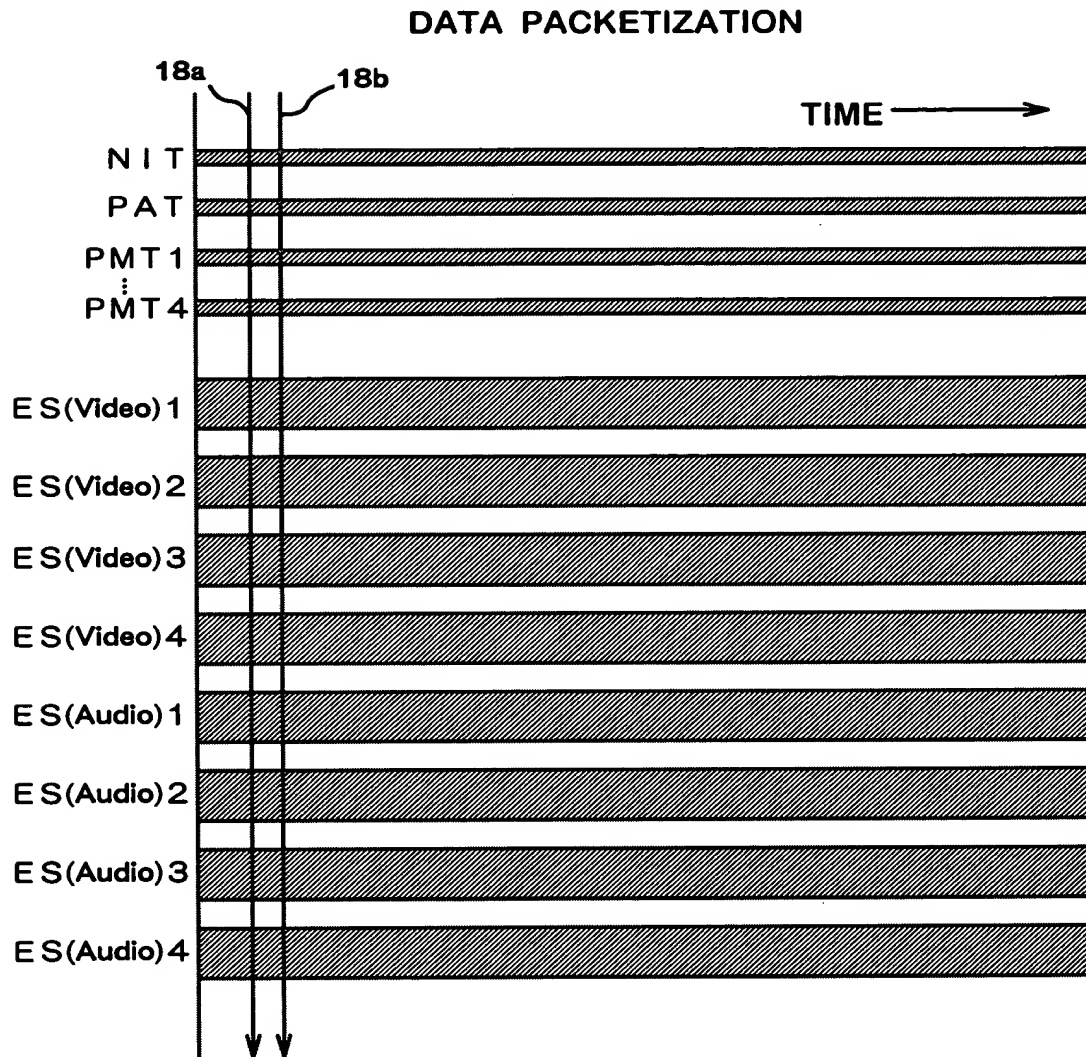


FIG.4

PRIOR ART

CONFIGURATION OF PACKETIZED DATA

P I D	CONTENT DATA
--------------	---------------------

PRIOR ART

FIG.5

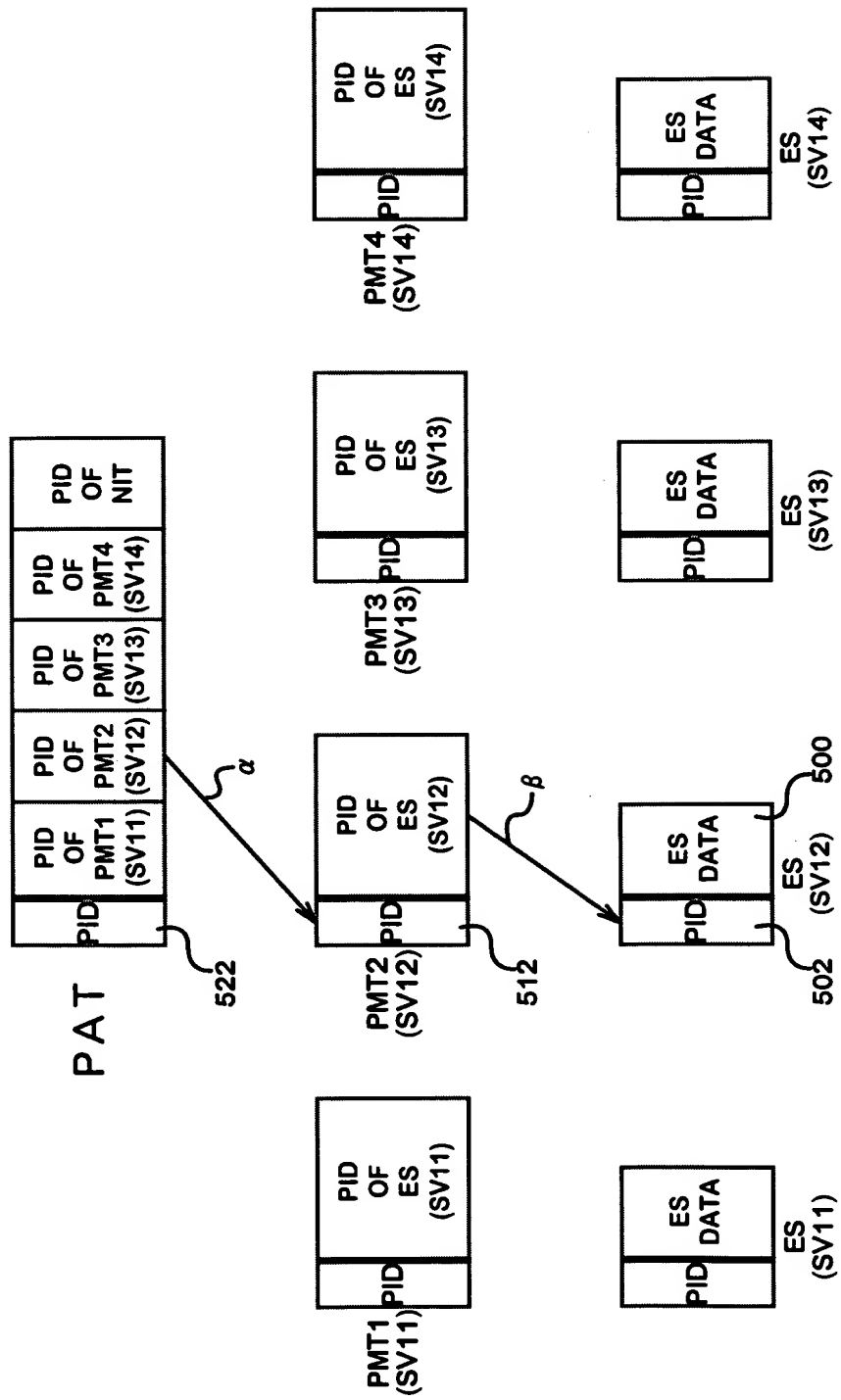


FIG.6

PRIOR ART

N I T

T S	TRANSMISSION PARAMETER	SERVICE LIST
T S 1	f 1	SV 1 1, SV 1 2, SV 1 3, SV 1 4
T S 2	f 2	SV 2 1, SV 2 2, SV 2 3, SV 2 4
⋮	⋮	⋮

FIG.7

PRIOR ART

CONFIGURATION OF RECEIVER

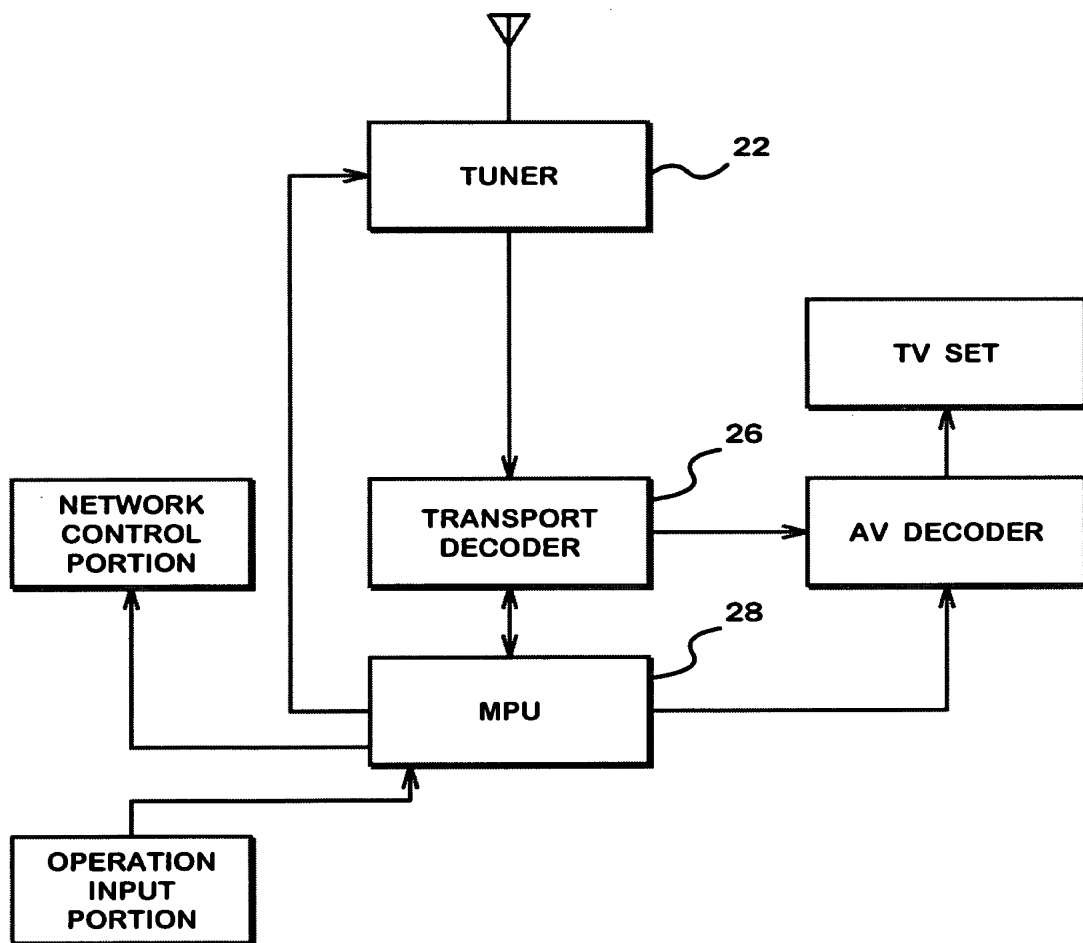


FIG. 8

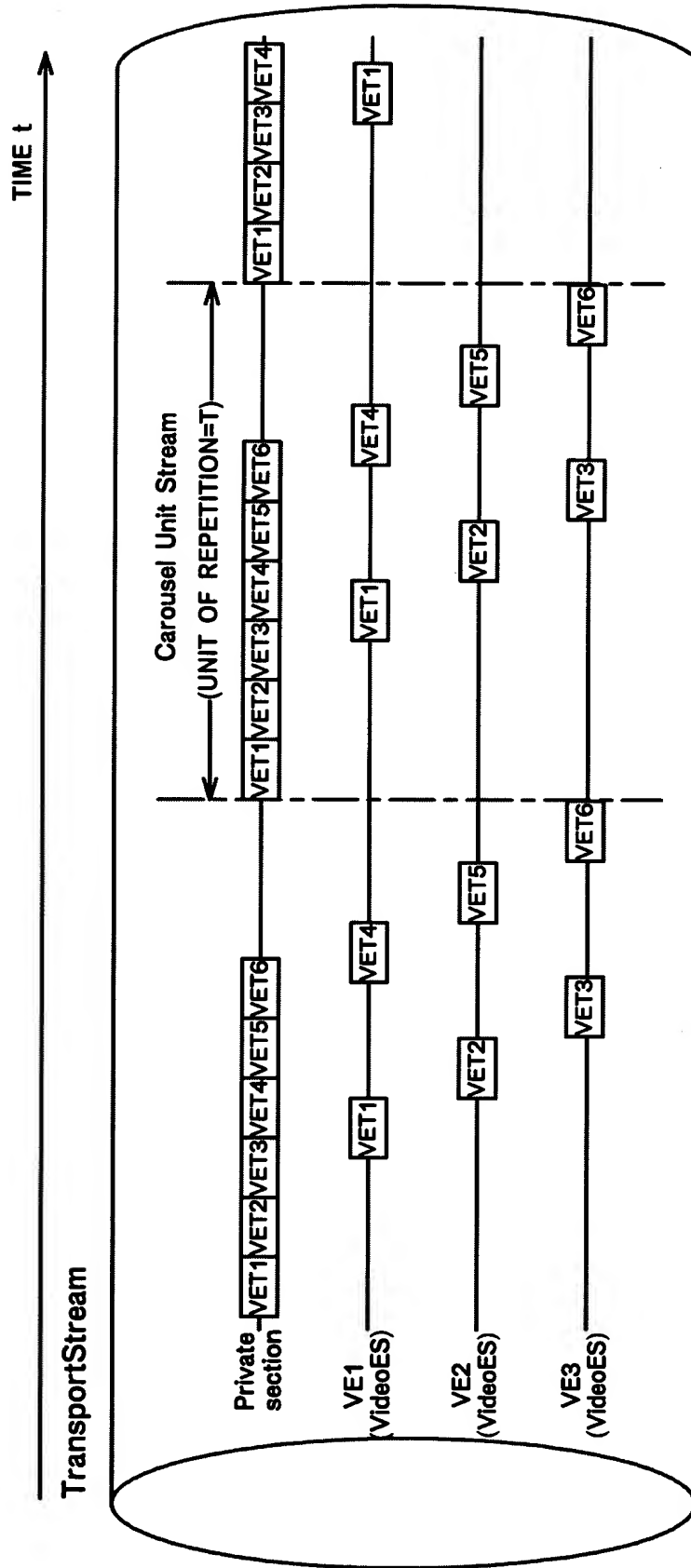
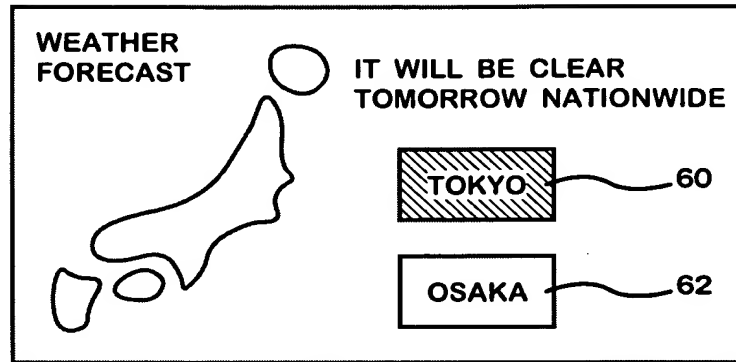


FIG.9

VET (PID=0x85)

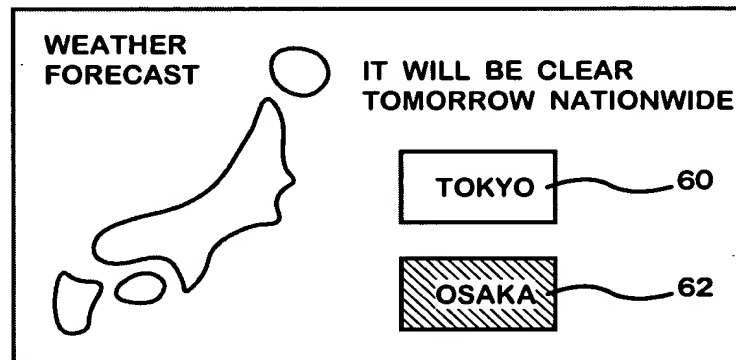
table_id	0x91
table_id_extension	0x0000
first_pts	45000
last_pts	45000
steam_id	0xe1
component_tag	0x0000

FIG.10A



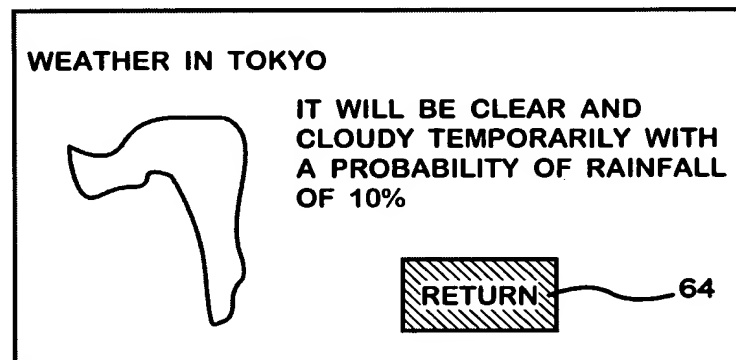
(VE1)

FIG.10B



(VE2)

FIG.10C



(VE7)

FIG.11

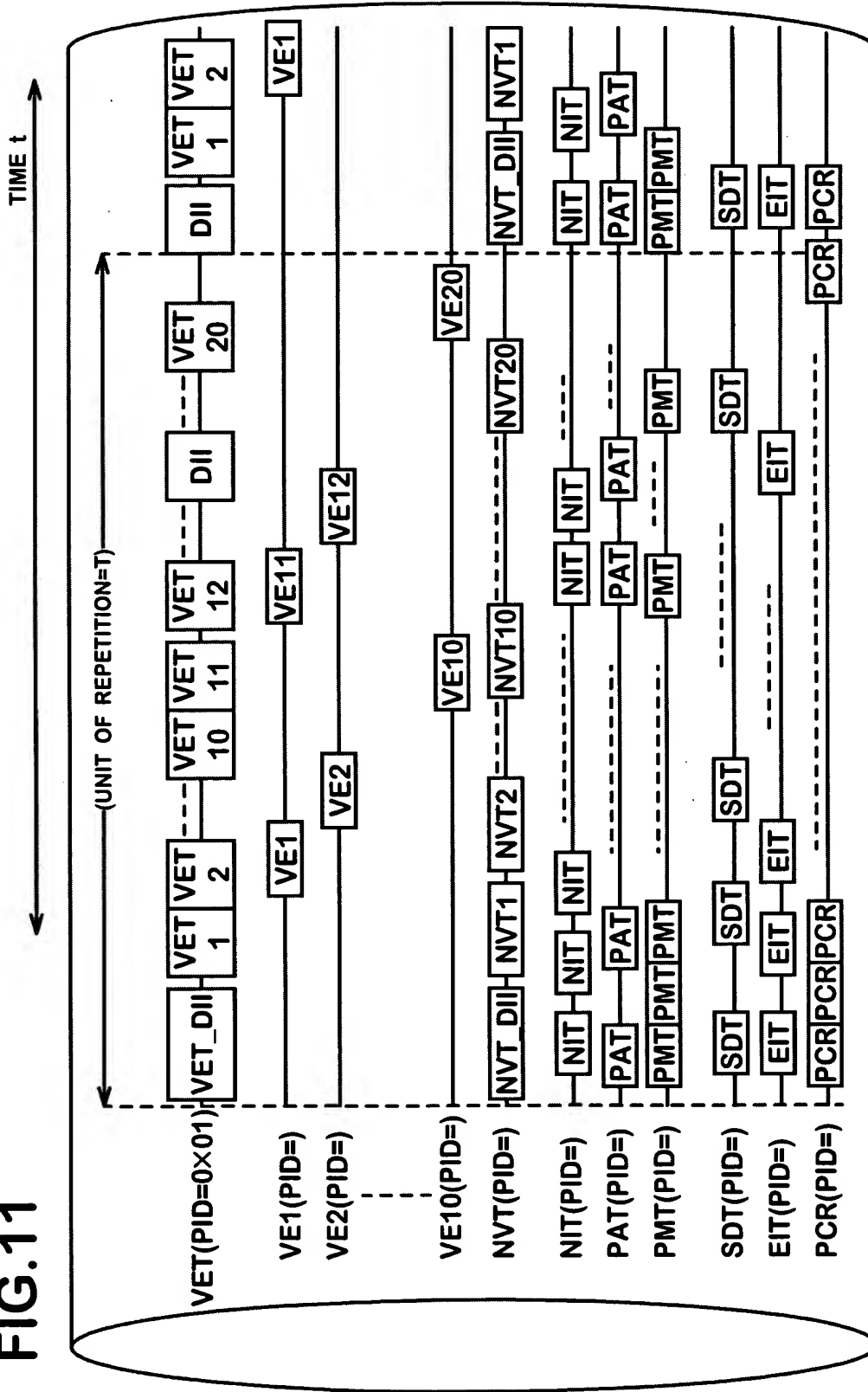


FIG.11a

APPEARANCE OF A REMOTE CONTROLLER

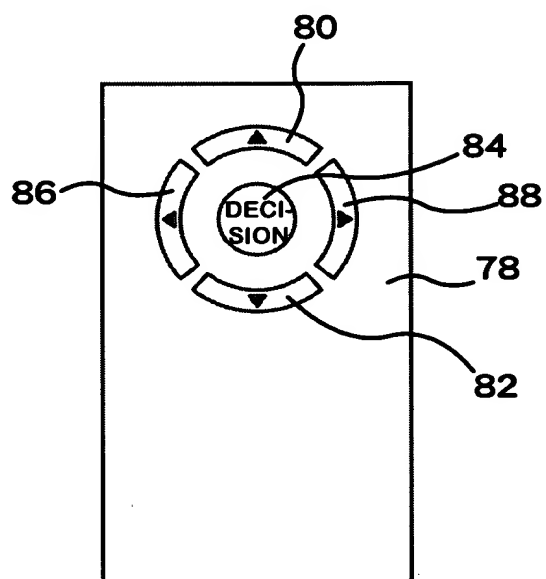


FIG.12

NVT 1

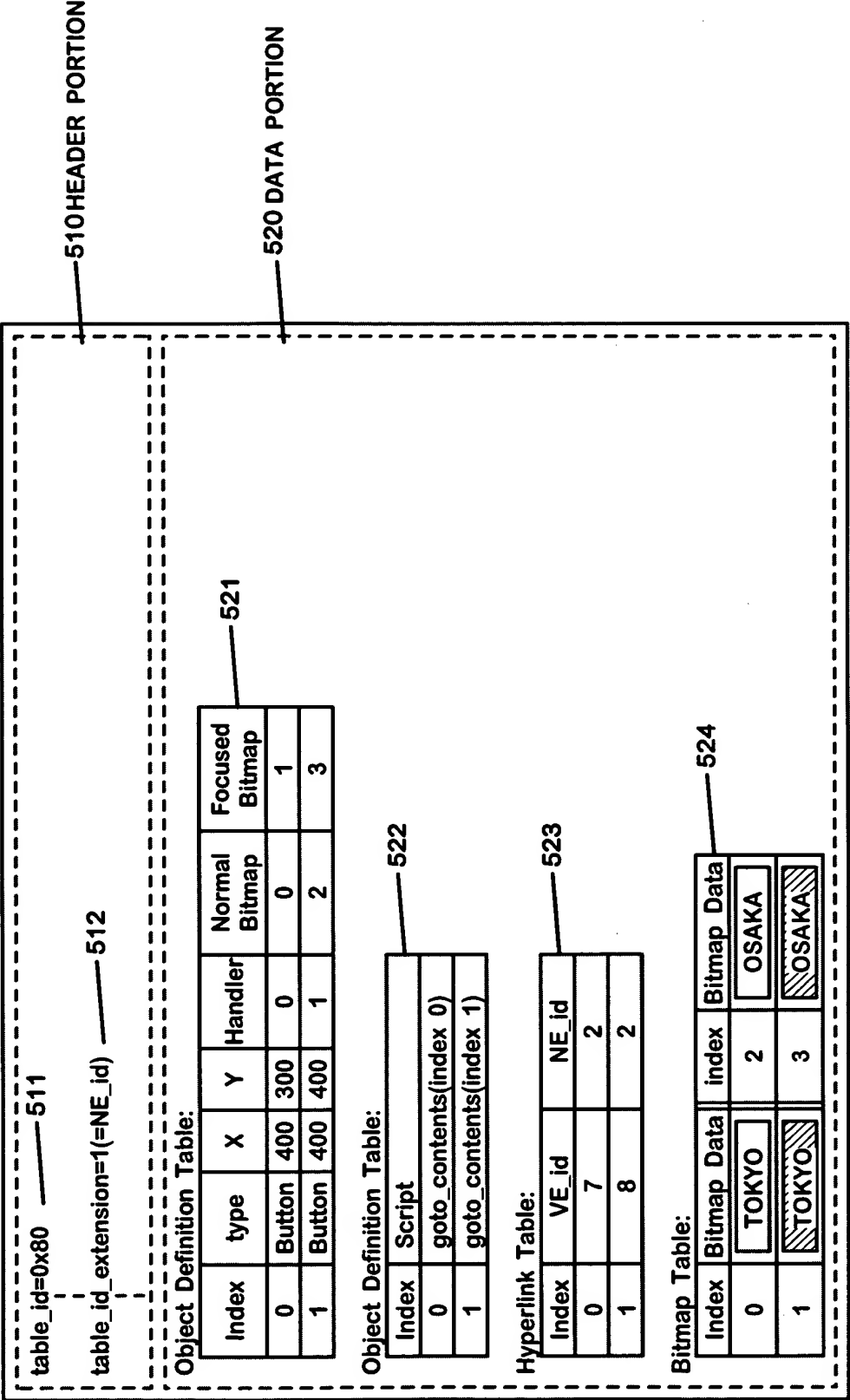


FIG.13

NVT2

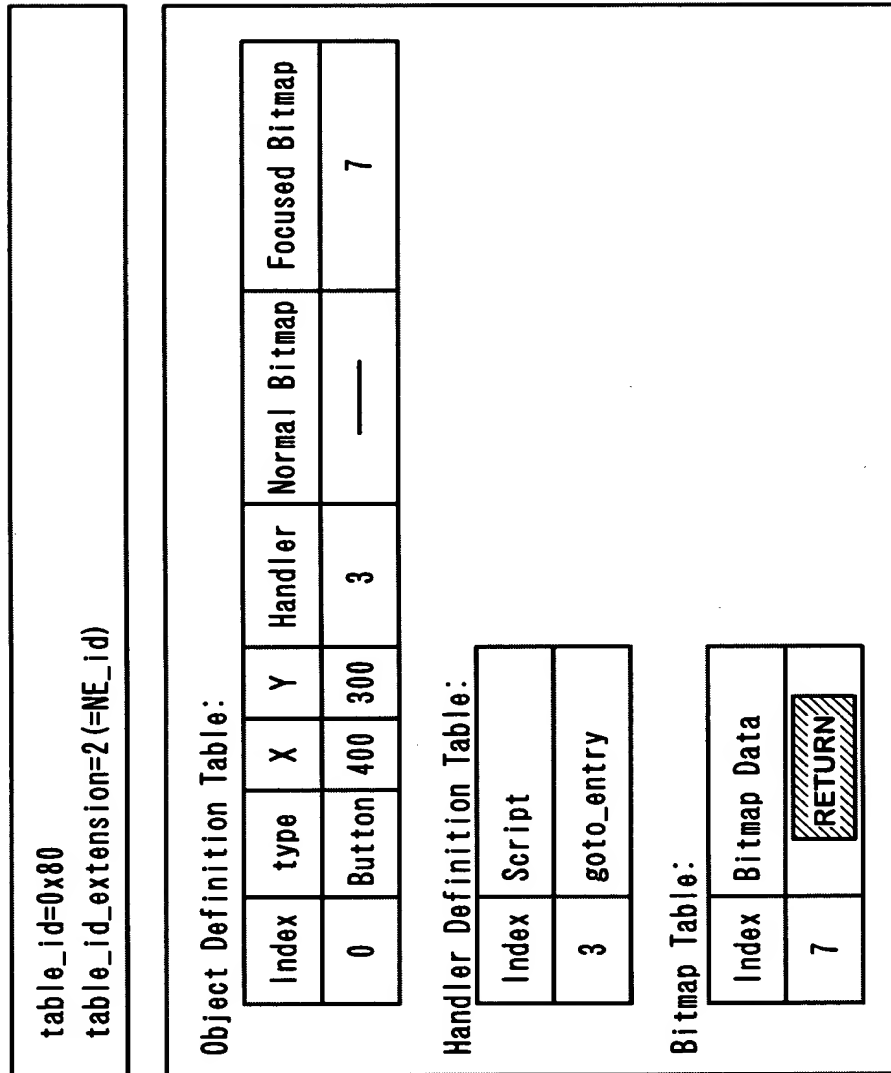


FIG.14

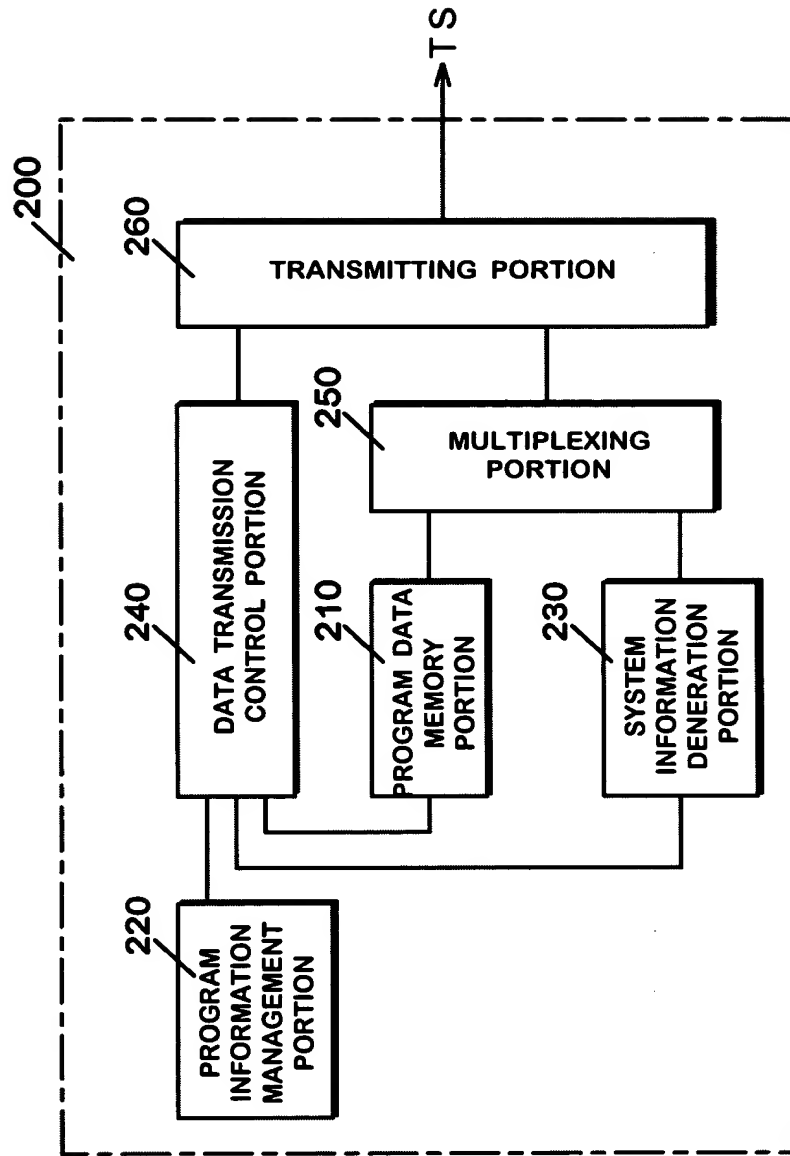


FIG.15

NVT_D I I

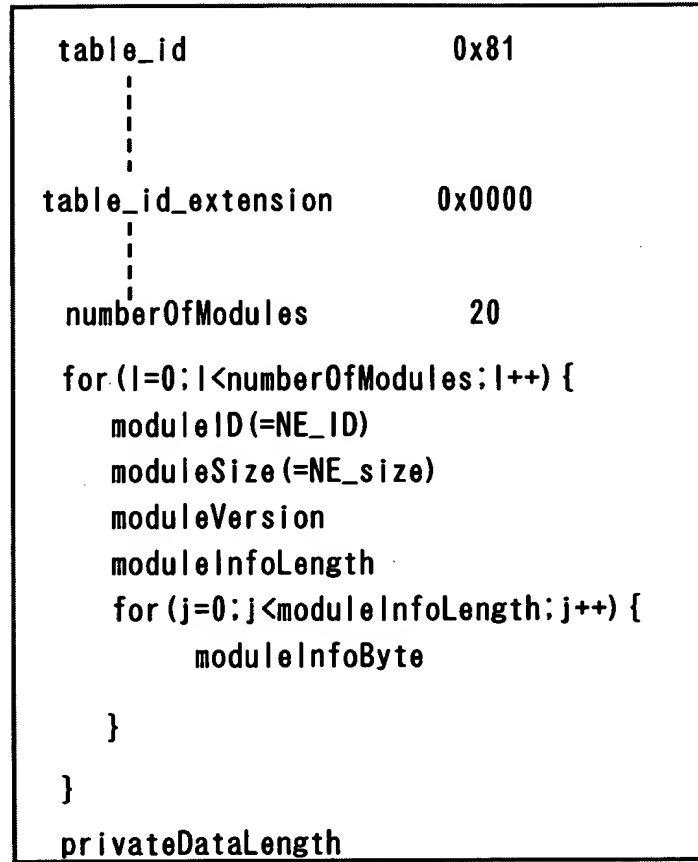


FIG.16

VET_D I I

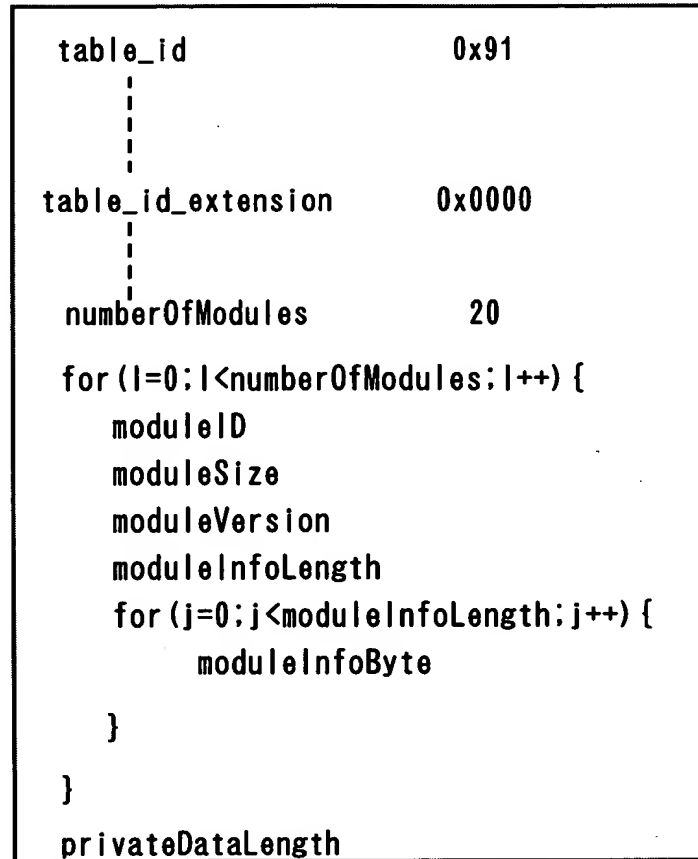


FIG.17A

N I T

table_id=0x40		
network_id=0x0001		
original_network_id	transport_stream_id	descriptor
0x0001	0x0001	TRANSMISSION PARAMETERS

FIG.17B

S D T

table_id=0x42	
transport_stream_id=0x0001	
service_id	descriptor
0x0001	INFORMATION SUCH AS SERVICE NAME

FIG.17C

E I T

table_id=0x4e	
service_id=0x0001	
event_id	descriptor
0x0001	INFORMATION SUCH AS SERVICE NAME

FIG.18A

PAT

table_id=0x0000	
transport_stream_id=0x0001	
program_no	PMT_pid
0x0001	0x0080

FIG.18B

PMT

table_id=0x01		
program_number=0x0001		
PCR_PID=0x0081		
DVX_Program_Descriptor		
Expiration_Descriptor		
PID	stream_type	descriptor
0x0082	0x04	NE_Component_Descriptor Stream_Identifier_descriptor
0x0083	0x02	VE_Information_Component_Descriptor Stream_Identifier_descriptor
0x0084	0x05	Stream_Identifier_descriptor
⋮	⋮	⋮
0x008d	0x05	Stream_Identifier_descriptor

FIG.19A

DVX_Program_Descriptor		
descriptor_tag	:	0x98
entry_VE_id	:	0x0001
entry_NE_id	:	0x0001

FIG.19B

NE_Component_Descriptor	
descriptor_tag	:
	0x99

FIG.19C

VE_Information_Component_Descriptor	
descriptor_tag	:
	0x9a

FIG.19D

stream_identifier_Descriptor	
descriptor_tag	:
	0x52
component_tag	:
	0x00

FIG.19E

Expiration_Descriptor		
descriptor_tag	:	0x9b
Expiration_Time	:	1999/9/10 23:59:59

FIG.20

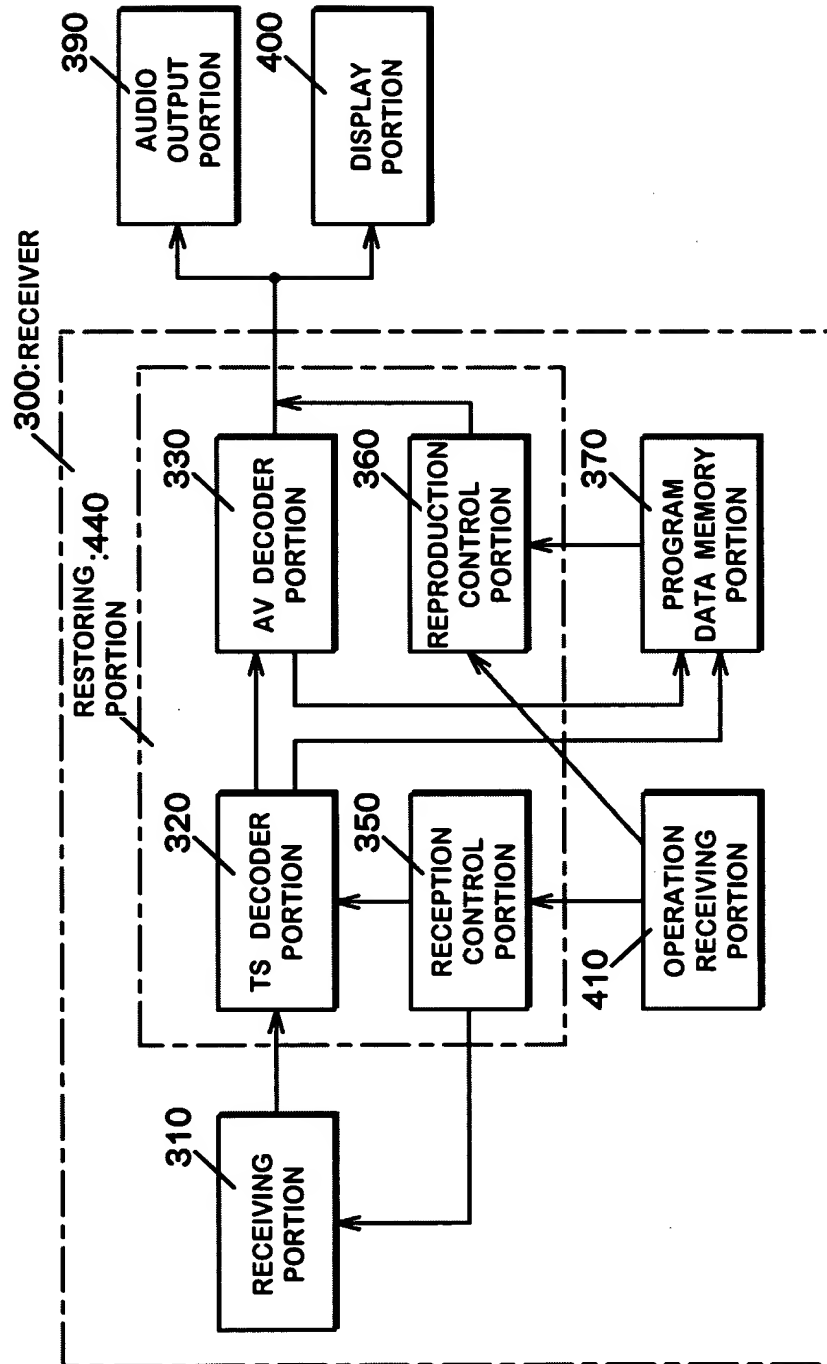
VIEW OF GENERAL CONFIGURATION OF A DIGITAL BROADCAST RECEIVER
(FIRST EMBODIMENT)

FIG.21

HARDWARE CONFIGURATION OF A DIGITAL BROADCAST RECEIVER

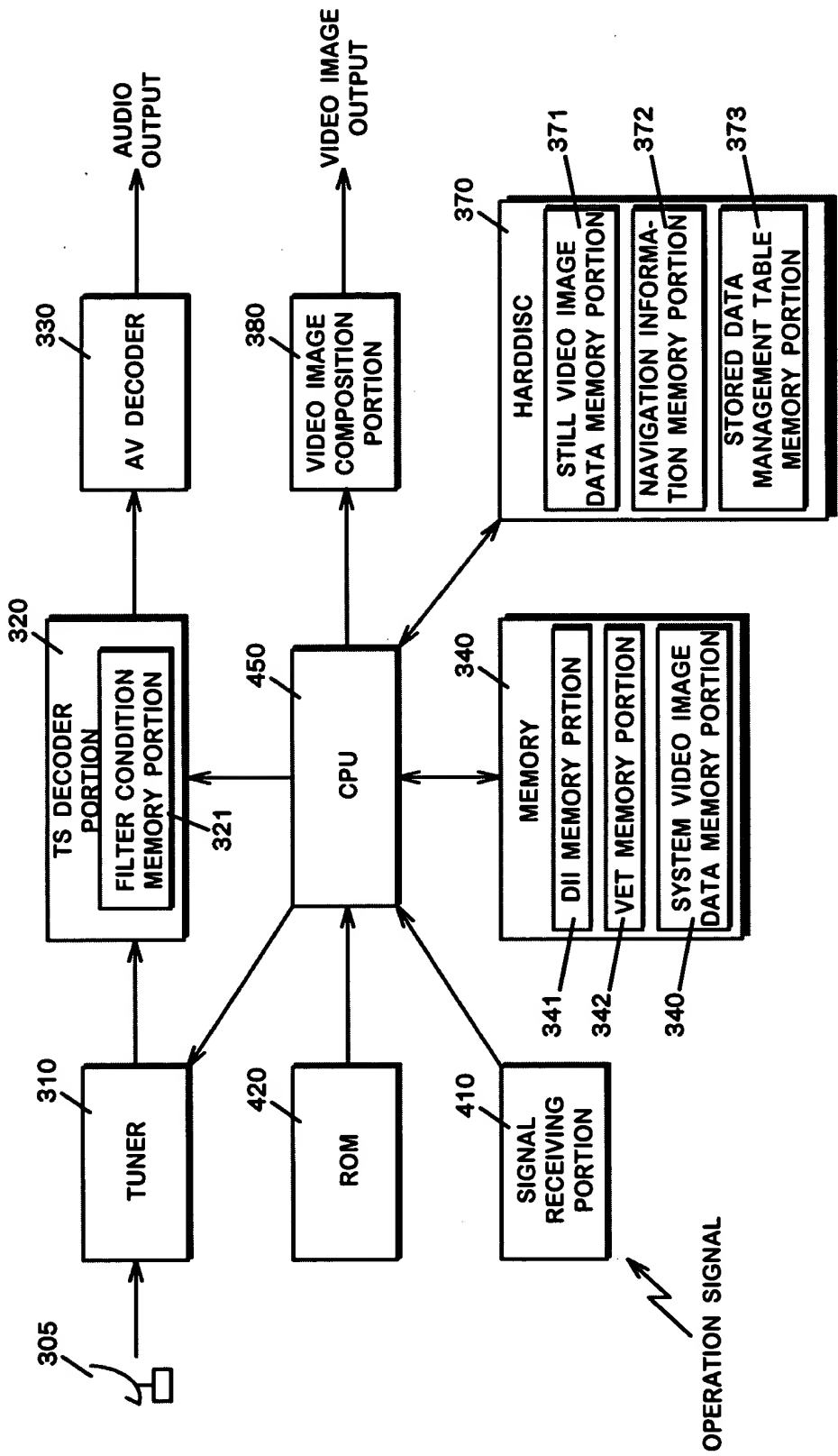


FIG.22

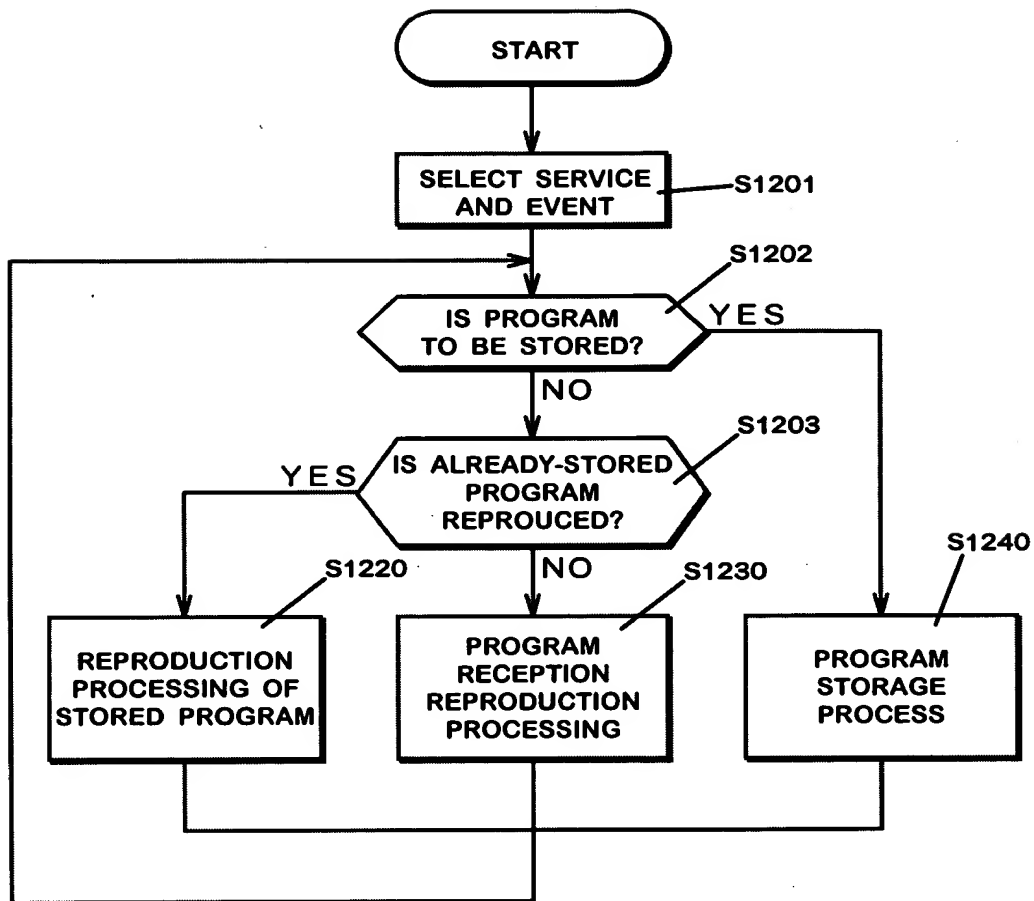


FIG.23

RECEPTION AND REPRODUCTION PROCESSING

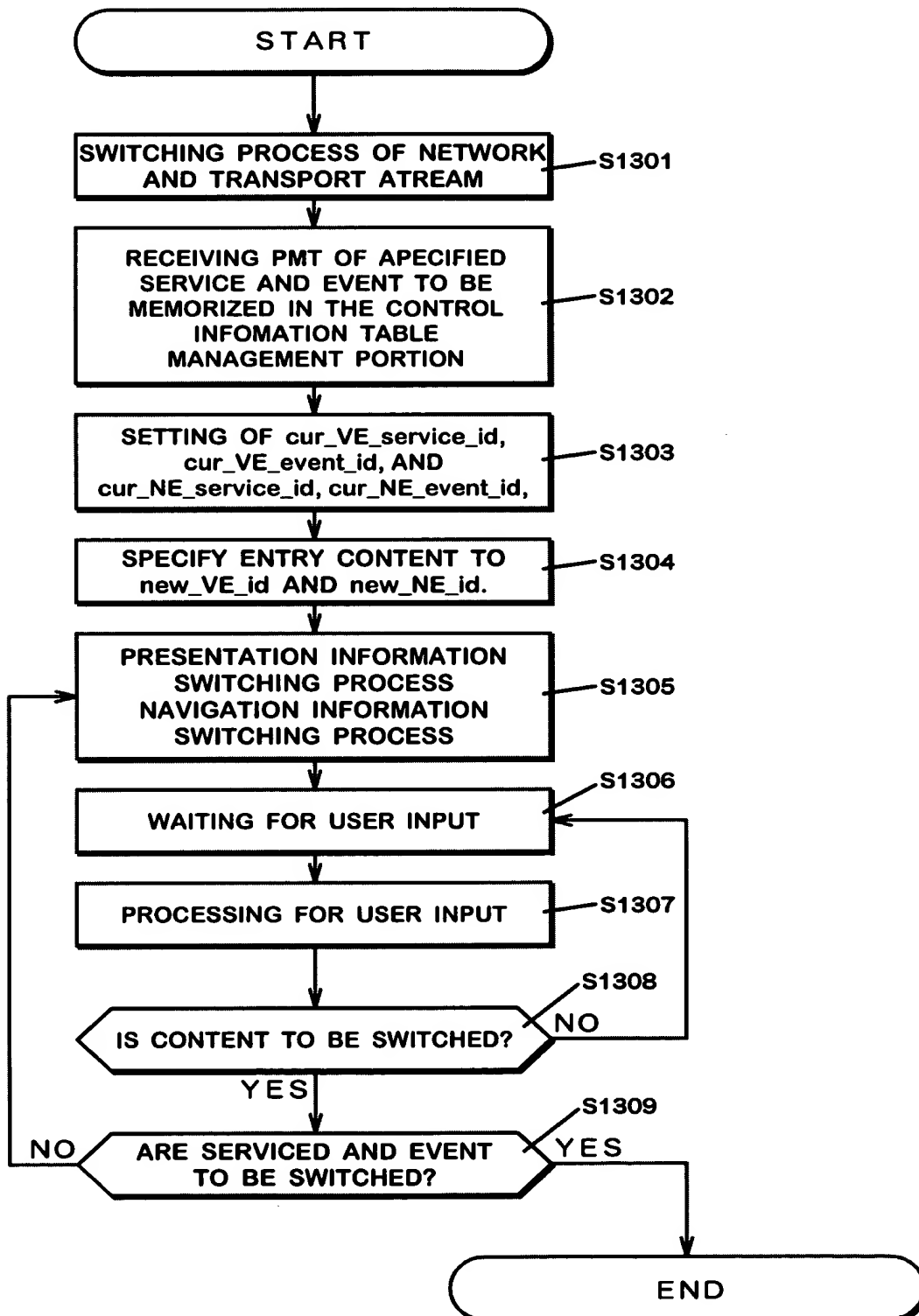


FIG.24

CONTENT SWITCHING PROCESS

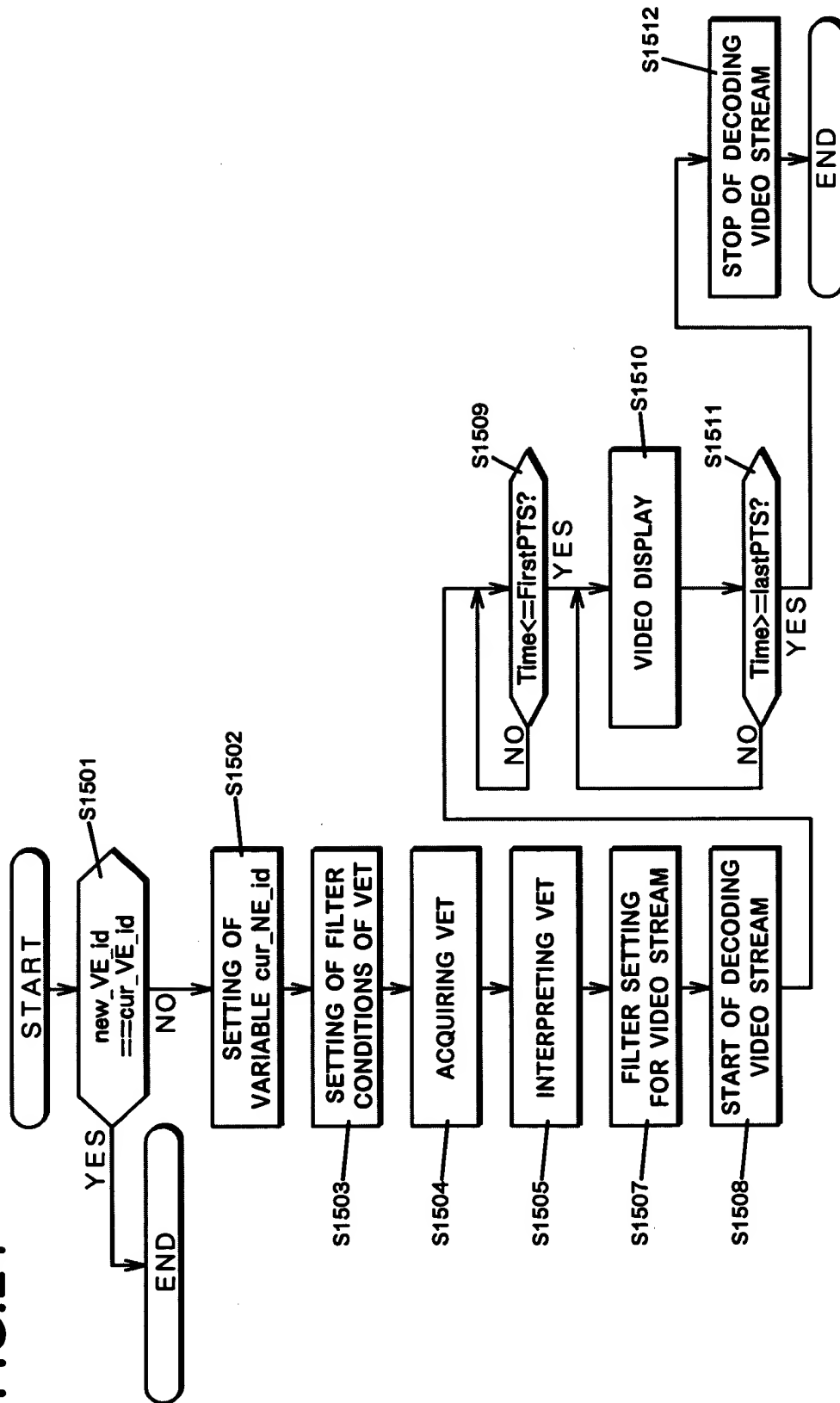


FIG.25

FILTER CONDITION TABLE 1100

IDENTIFICATION No.	START/STOP	PID	stream_id	table_id	table_id_extension	DESTINATION
0	START	0x0084	0xe5			AV DECODER PORTION
1	START	0x0083		0x90	0x0001	VET MEMORY PORTION
2	START	0x0082		0x80	0x0001	NAVIGATION INFORMATION MEMORY PORTION
3	STOP	0x0083		0x91	—	DII MEMORY PORTION
4	START	0x0082		0x81	—	DII MEMORY PORTION
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.26

FILTER CONDITION TABLE 1400

IDENTIFICATION No.	START/STOP	PID	stream_id	table_id	table_id_extension	DESTINATION
0	START	0x0084	0xe5			AV DECODER PORTION
1	START	0x0083		0x90	0x0001	VET MEMORY PORTION
2	START	0x0082		0x80	0x0001	NAVIGATION INFORMATION MEMORY PORTION
3	STOP	0x0083		0x91	—	DII MEMORY PORTION
4	STOP	0x0082		0x81	—	DII MEMORY PORTION
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.27

NAVIGATION INFORMATION SWITCHING PROCESS

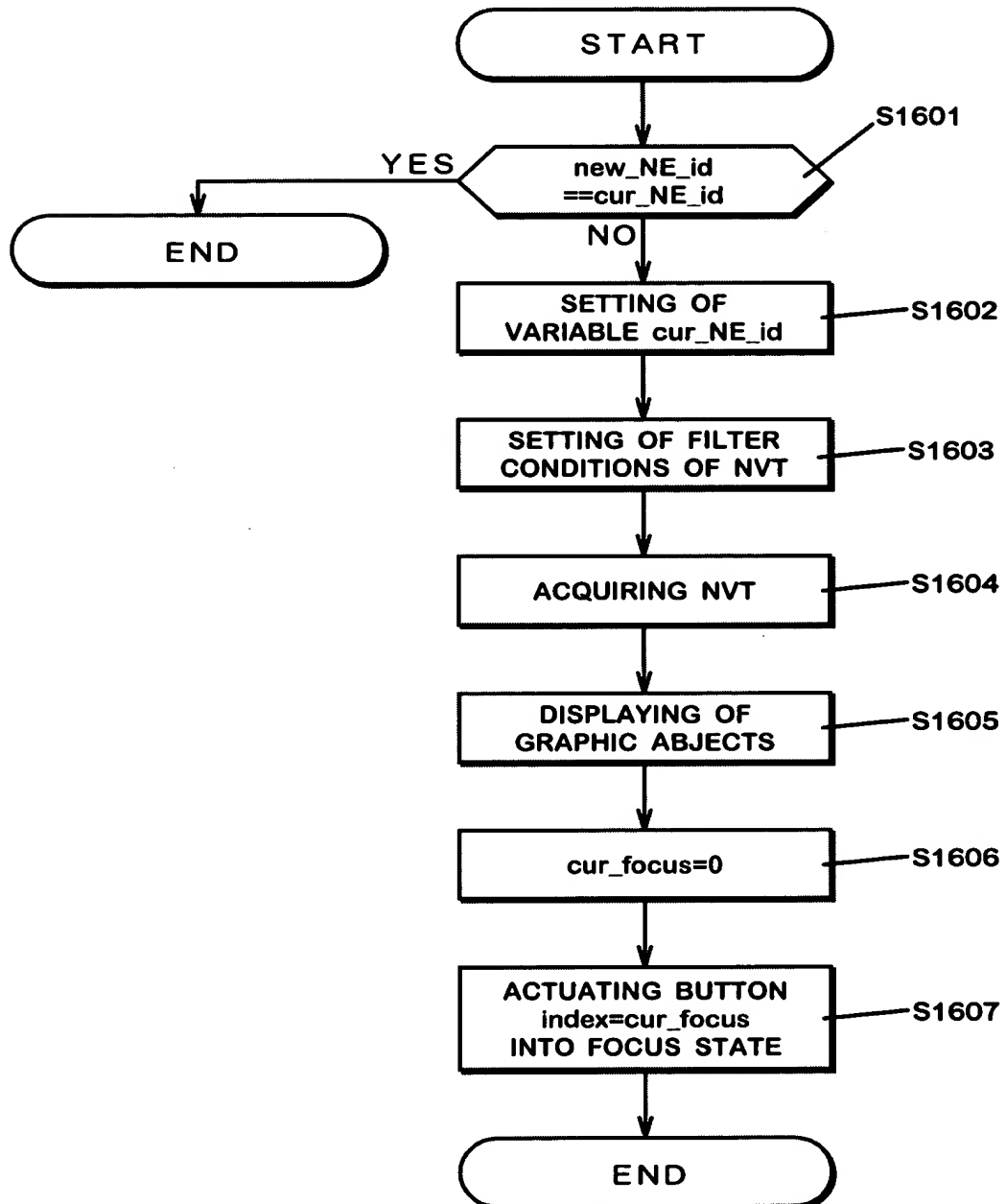


FIG.28

USER INPUT SIGNAL PROCESSING

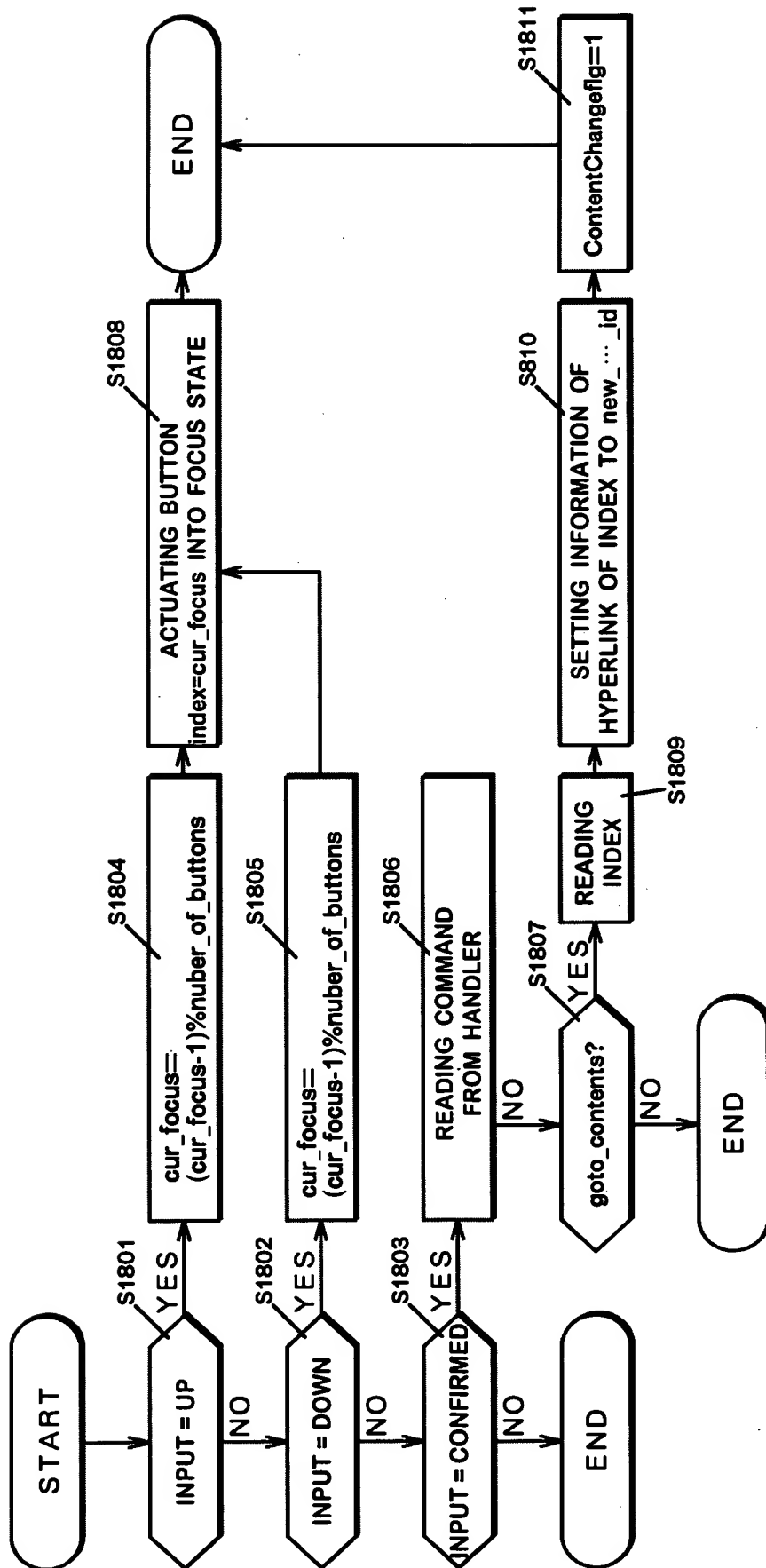


FIG.29 1900 { STORED DATA MANAGEMENT TABLE

STORAGE COMPLETION FLAG=False ~ 1901

Expiration=1999/9/10 23:59:59 ~ 1902

Entry_VE_id=0x0001 ~ 1903

Entry_NE_id=0x0001 ~ 1904

1905

{ VIDEO IMAGE DATA MANAGEMENT TABLE

VE_id	MEMORY LOCATION (FILE NAME)	SIZE	STORAGE FLAG
1	/service5/event4/ve_1	100KB	True
2	/service5/event4/ve_2	123KB	True
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
19	—	—	False
20	/service5/event4/ve_20	102KB	True

1906

{ NAVIGATION INFORMATION
MANAGEMENT TABLE

NE_id	MEMORY LOCATION (FILE NAME)	SIZE	STORAGE FLAG
1	/service5/event4/ve_1	32KB	True
2	—	—	False
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
19	/service5/event4/ve_19	51KB	True
20	/service5/event4/ve_20	21KB	True

FIG.30

PROGRAM STORAGE PROCESS (RECORDING PROCESSING)

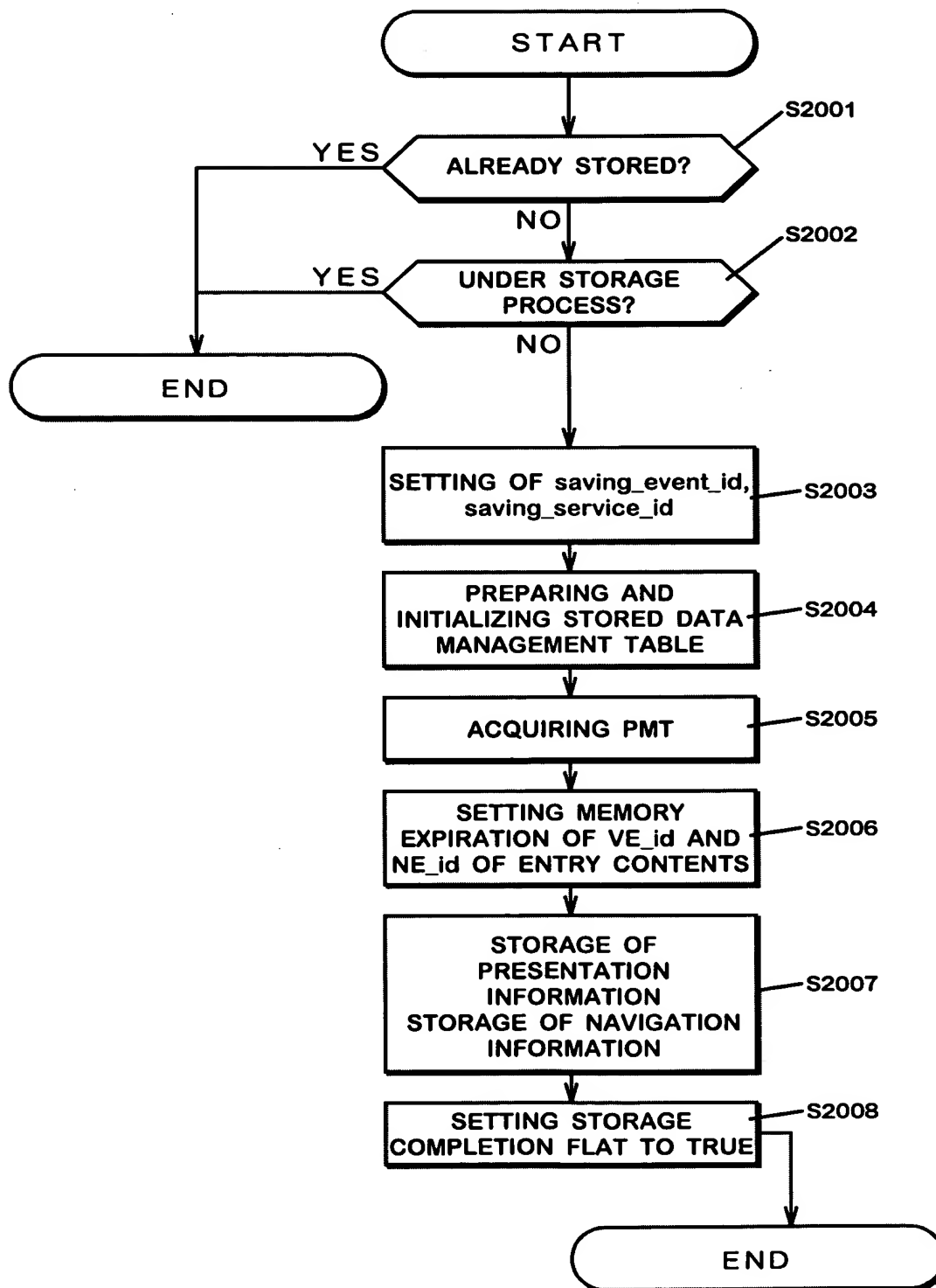


FIG.31

PRESENTATION INFORMATION STORAGE PROCESS

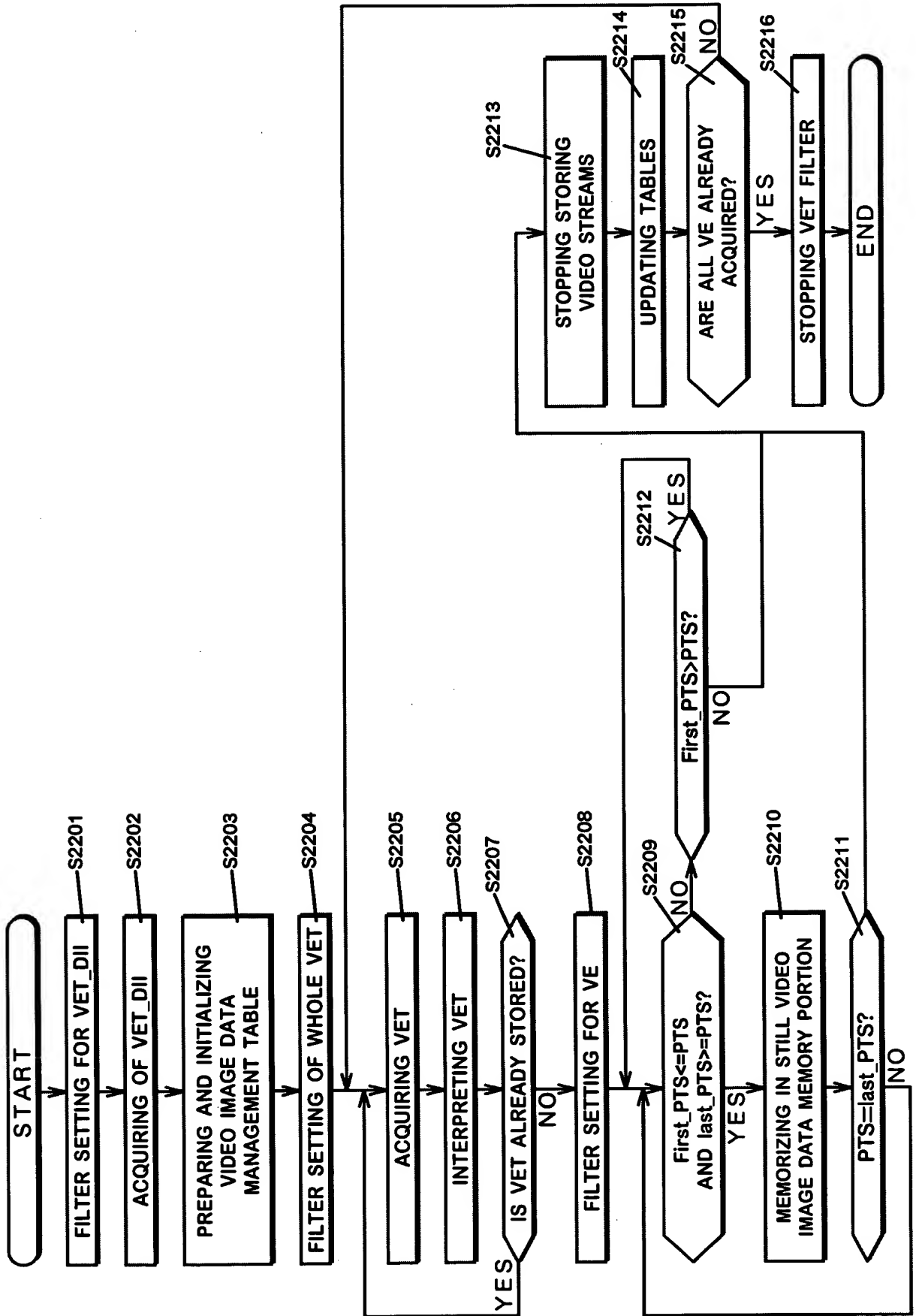


FIG.32

FILTER CONDITION TABLE 1400

1401 IDENTIFICATION No.	1402 START/STOP	1403 PID	1403 stream_id	1404 table_id	1405 table_id_extension	1406 DESTINATION
0	START	0x0084	0xe5			AV DECODER PORTION
1	STOP	0x0083		0x90		VET MEMORY PORTION
2	STOP	0x0082		0x80		NAVIGATION INFORMATION MEMORY PORTION
3	START	0x0083		0x91		DII MEMORY PORTION
4	START	0x0082		0x81		DII MEMORY PORTION
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG.33

NAVIGATION INFORMATION STRAGE PROCESS

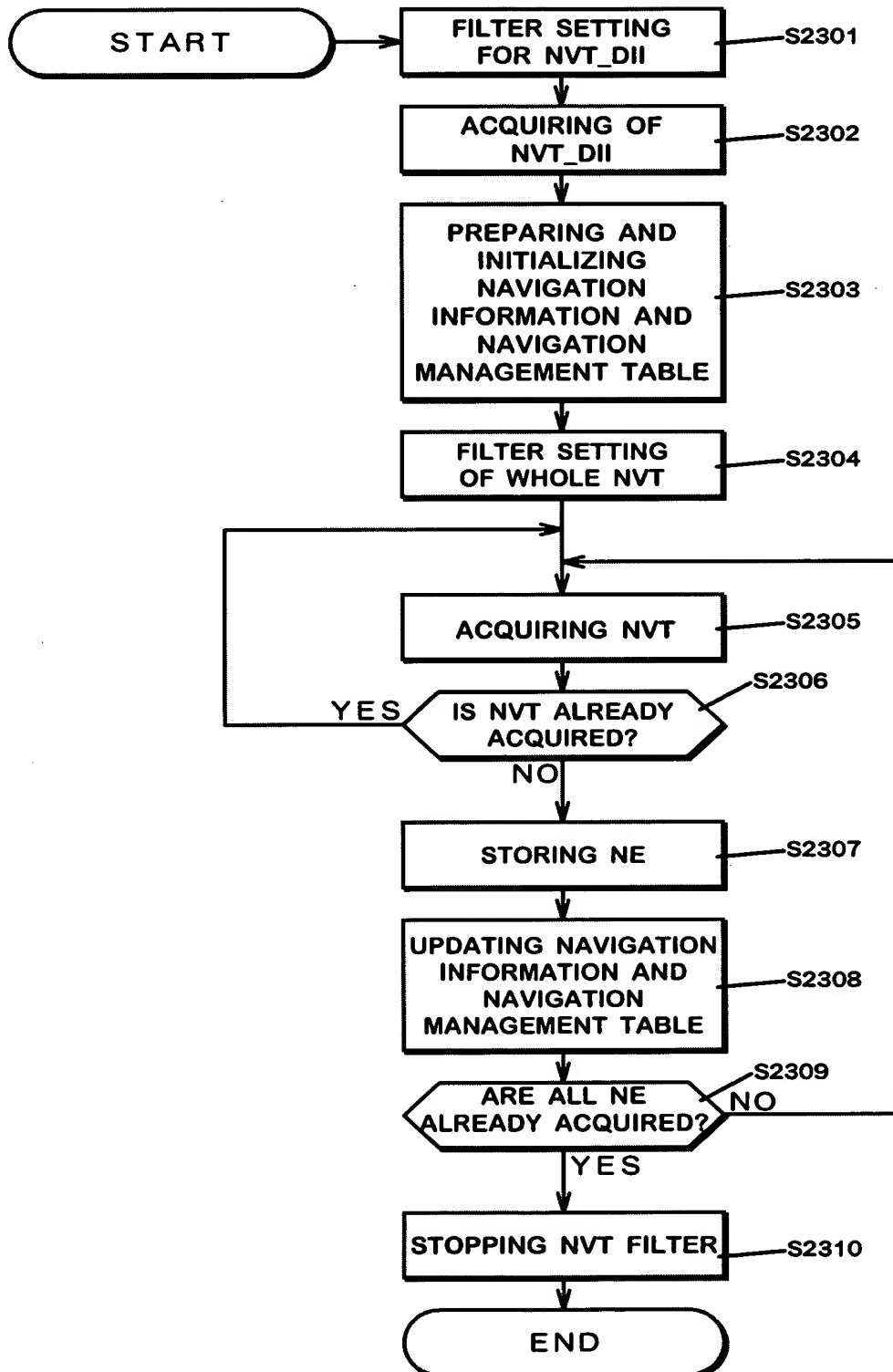


FIG.34

REPRODUCTION PROCESSING OF STORED PROGRAM DATA

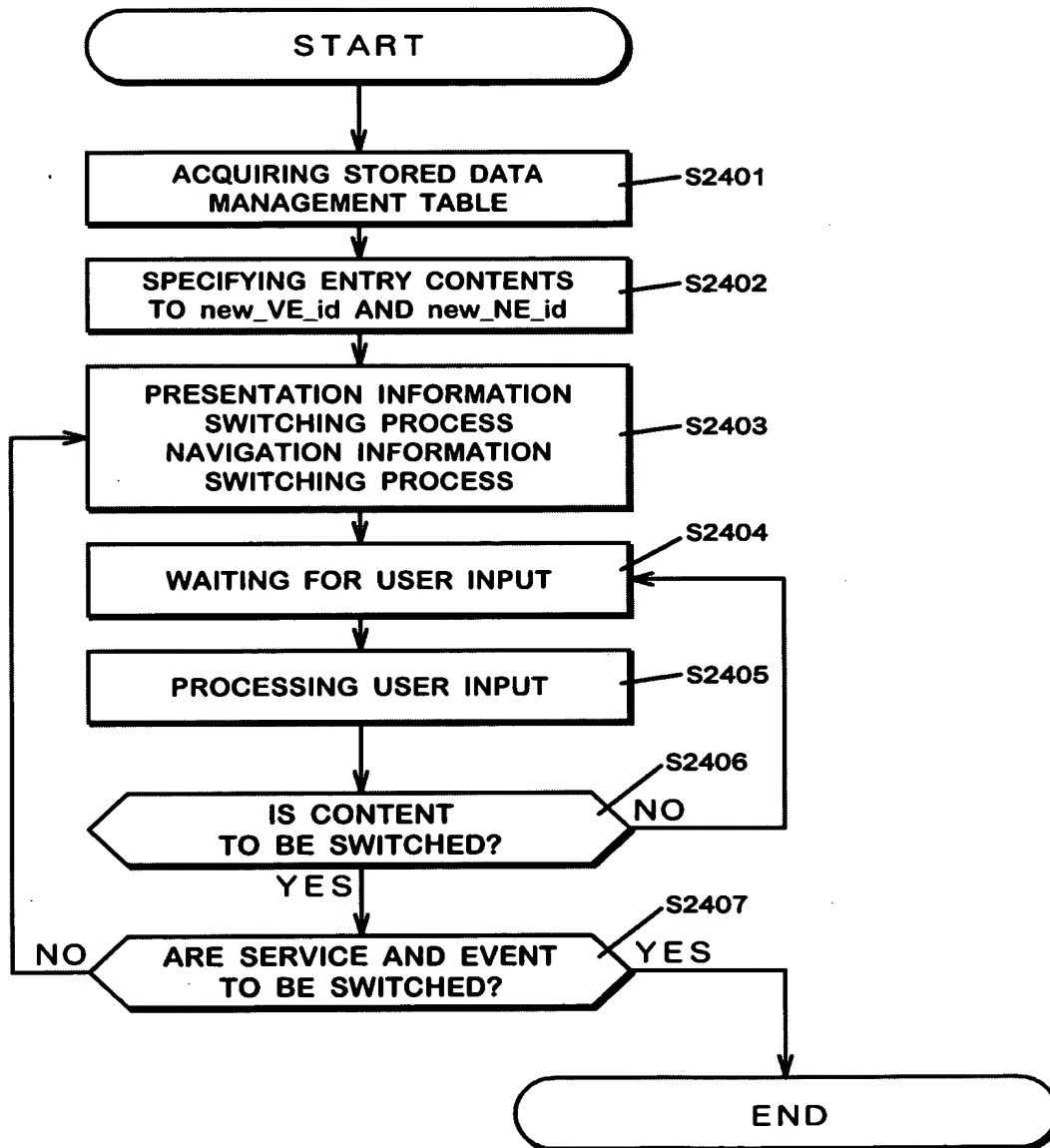


FIG.35

PRESENTATION INFORMATION SWITCHING PROCESS

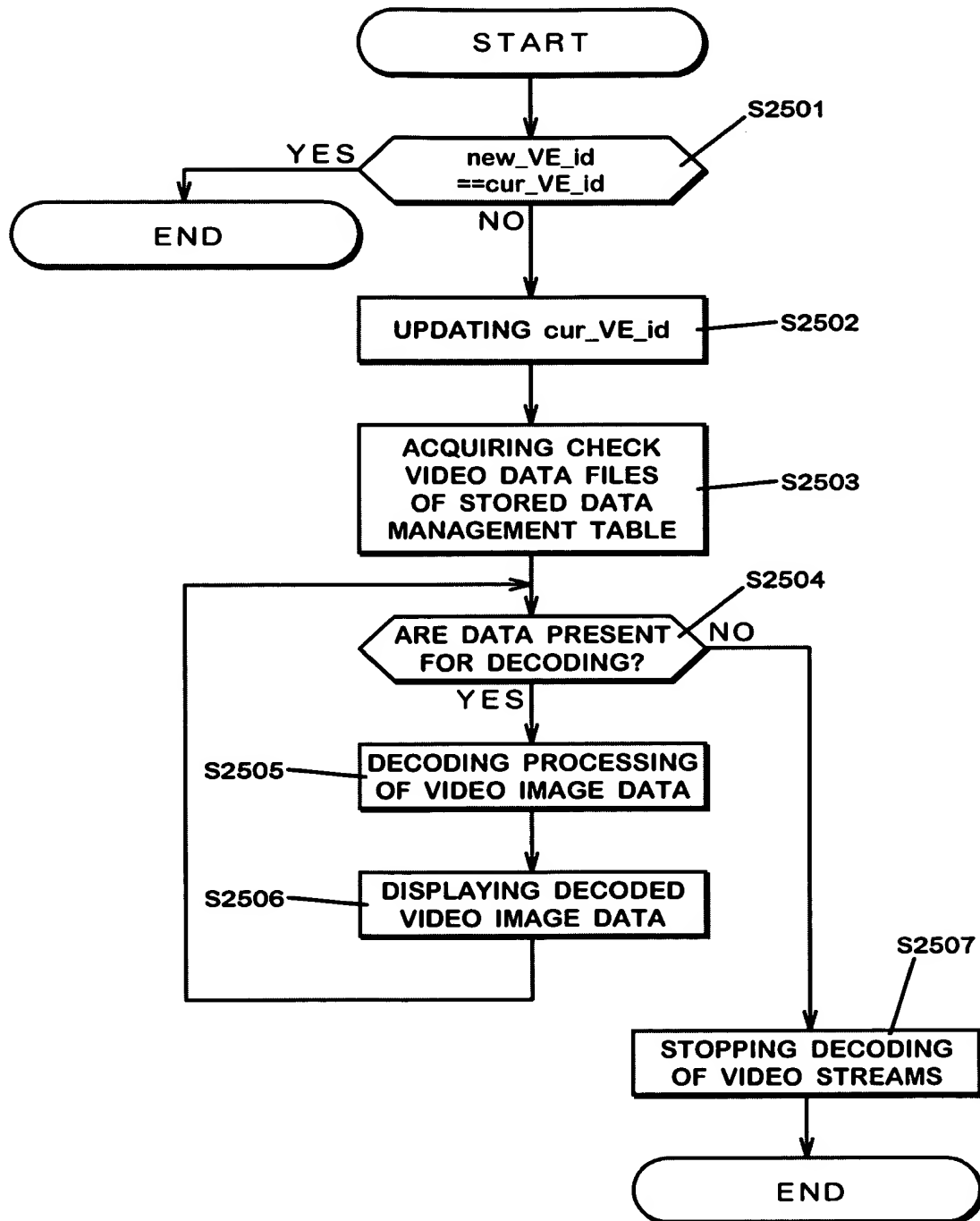


FIG.36

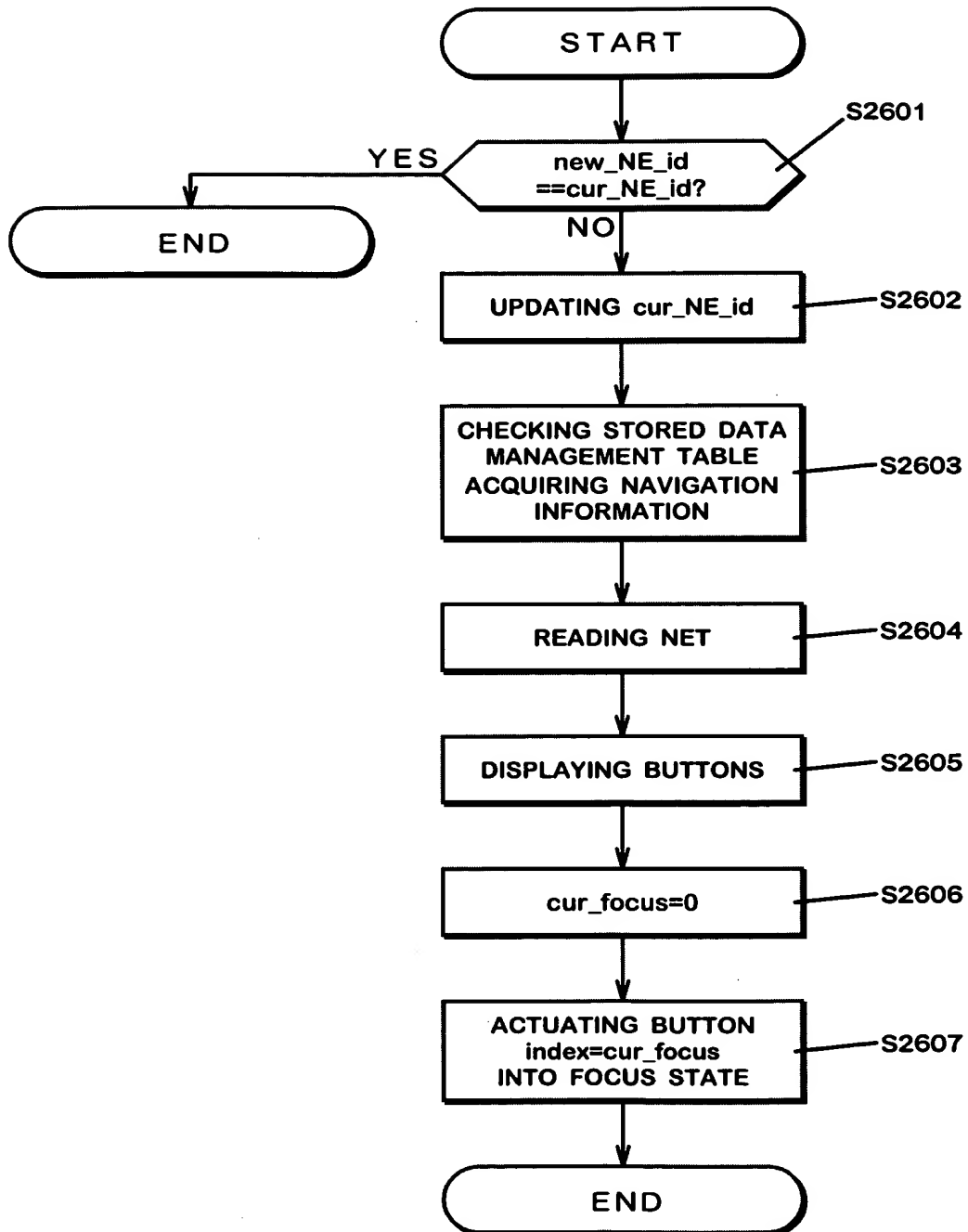


FIG.37

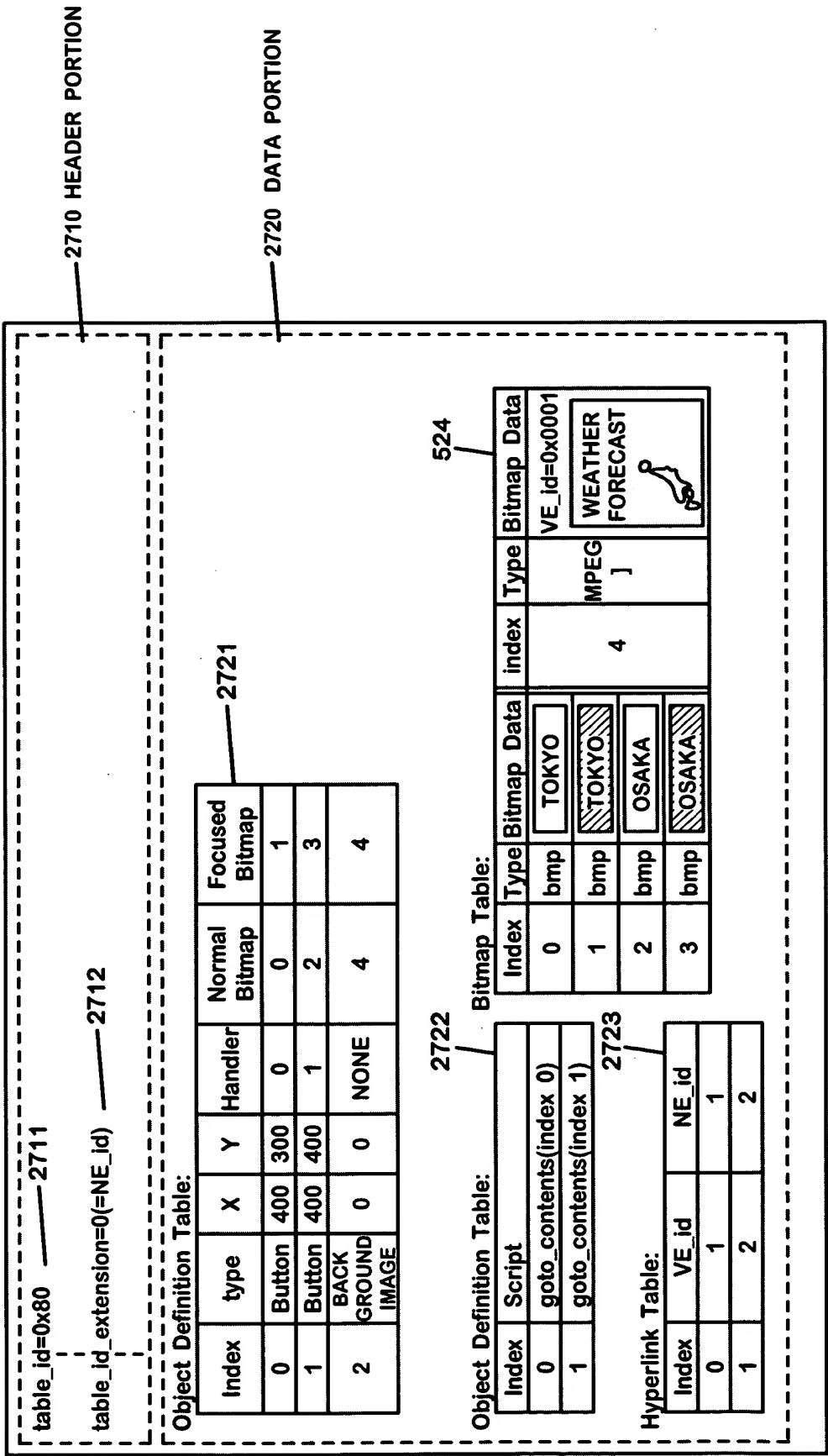


FIG.38

NVT_D I I

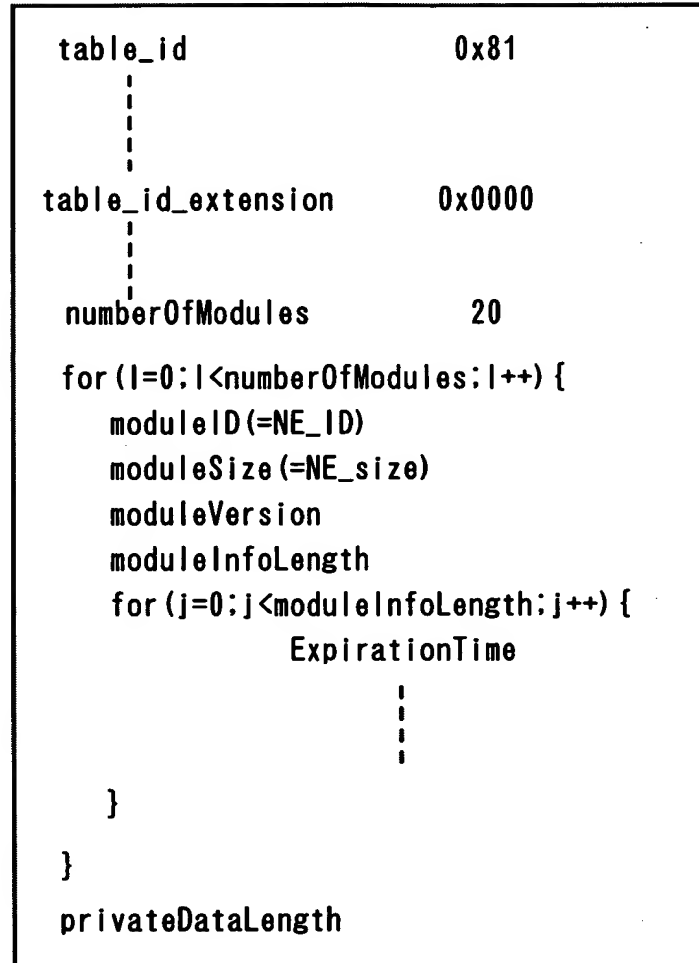


FIG.39

VET_D I I

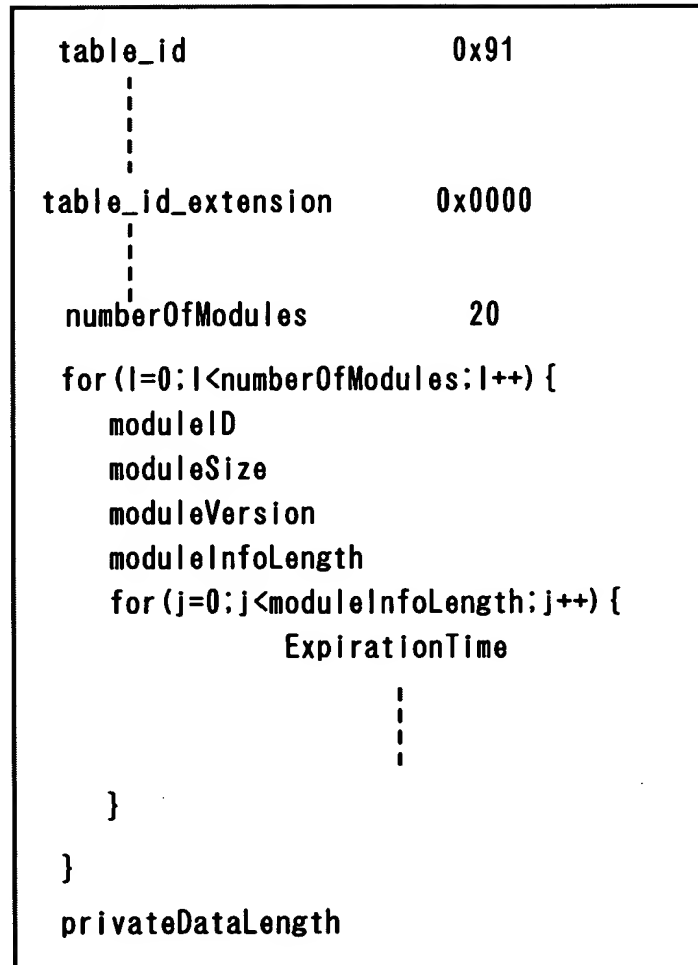


FIG.40

3000 { STORED DATA MANAGEMENT TABLE

STORAGE COMPLETION FLAG=False ~~~~~ 3001

Expiration=1999/9/10 23:59:59 ~~~~~ 1902

Entry_VE_Id=0x0001 ~~~~~ 1903

Entry_NE_Id=0x0001 ~~~~~ 1904R

3005 {

VIDEO IMAGE DATA MANAGEMENT TABLE

VE_Id	MEMORY LOCATION (FILE NAME)	SIZE	STORAGE FLAG	Expiration
1	/service5/event4/ve_1	100KB	True	1999/9/20 23:59:00
2	/service5/event4/ve_2	123KB	True	1999/9/19 23:59:00
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
19	—	—	False	1999/9/21 23:59:00
20	/service5/event4/ve_20	102KB	True	1999/9/20 2:00:00

3006 {

NAVIGATION INFORMATION
MANAGEMENT TABLE

NE_Id	MEMORY LOCATION (FILE NAME)	SIZE	STORAGE FLAG	Expiration
1	/service5/event4/ve_1	32KB	True	1999/9/20 23:59:00
2	—	—	False	1999/9/19 23:59:00
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
19	/service5/event4/ve_19	51KB	True	1999/9/21 23:59:00
20	/service5/event4/ve_20	21KB	True	1999/9/20 2:00:00

FIG.41

VIEW OF GENERAL CONFIGURATION OF A DIGITAL BROADCAST RECEIVER
(SECOND EMBODIMENT)

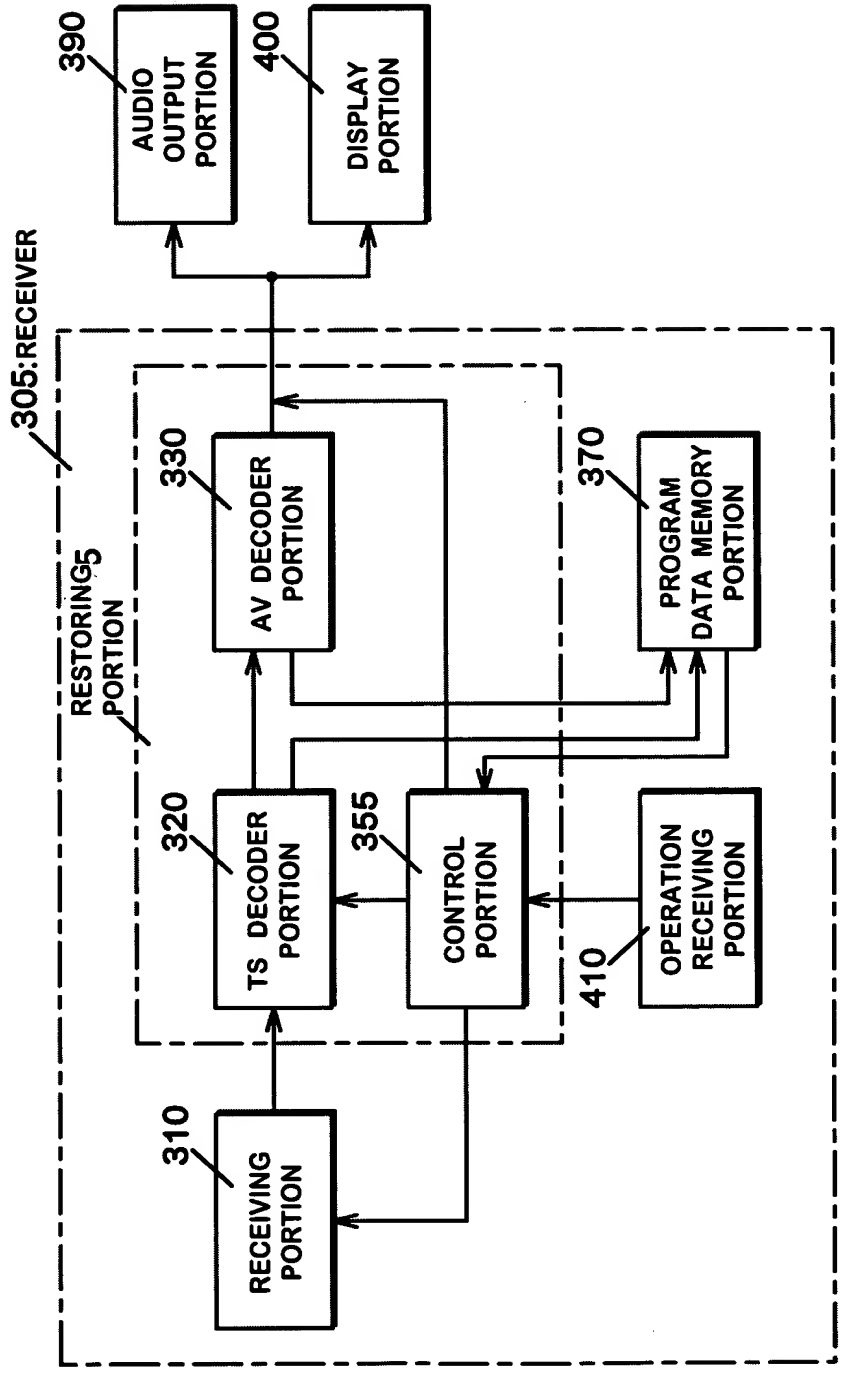


FIG.42

RECEPTION PROCESSING (GENERAL)

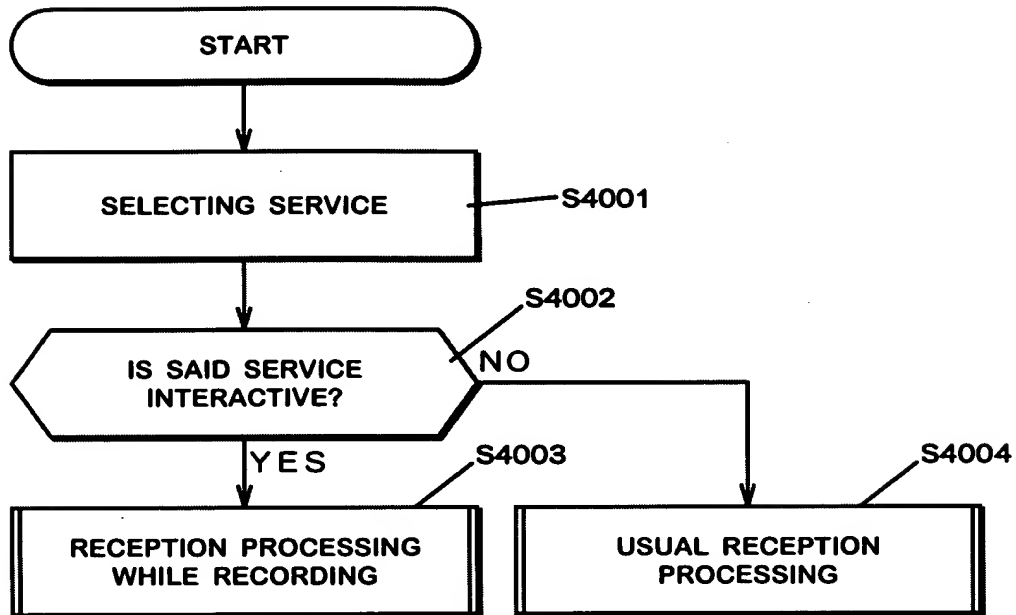


FIG.43

RECEPTION PROCESSING WHILE RECORDING (1)

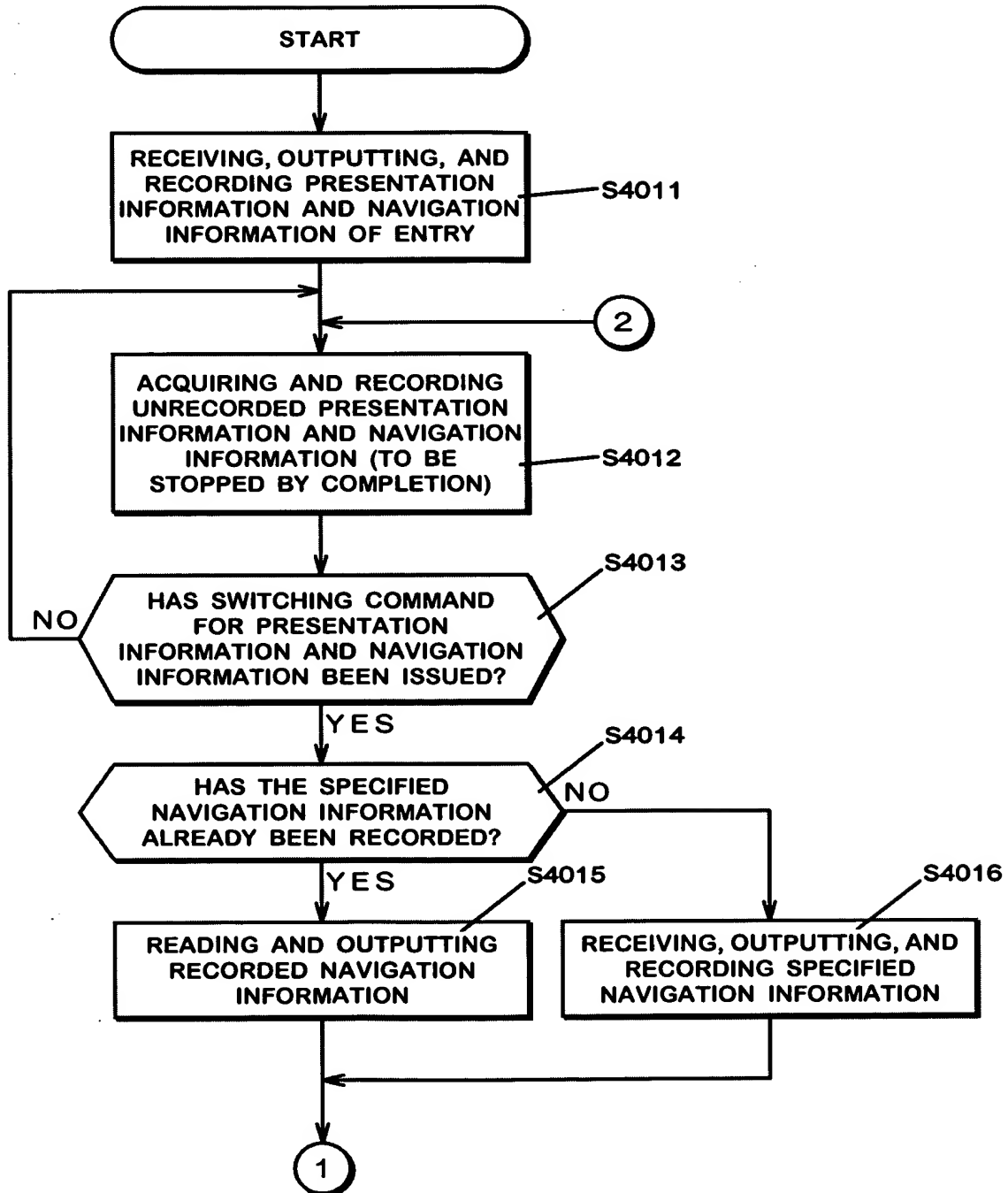


FIG.44

RECEPTION PROCESSING WHILE RECORDING(2)

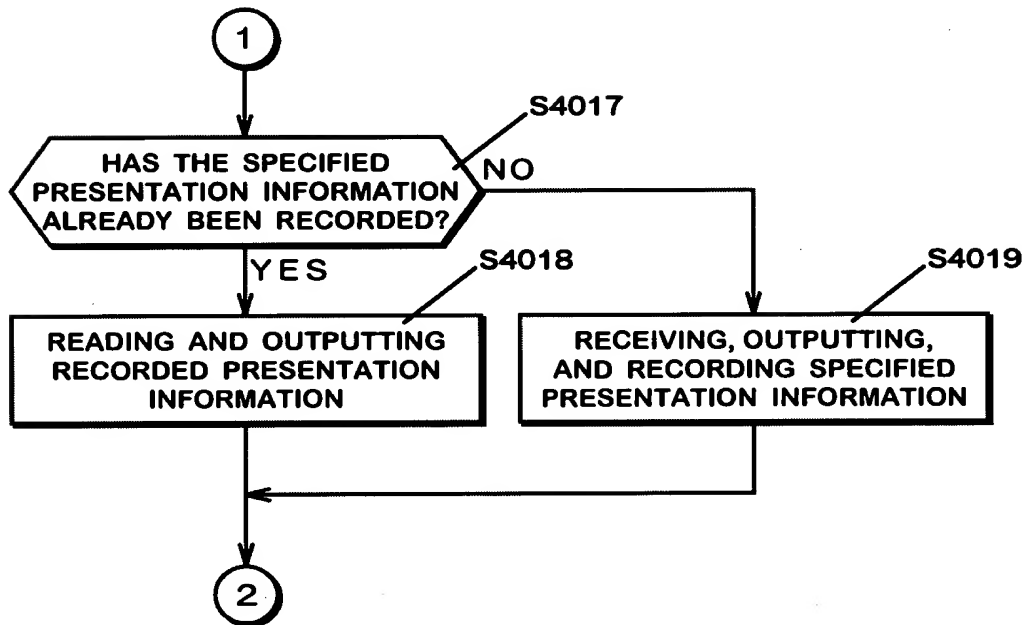


FIG.45

NVT_D I I

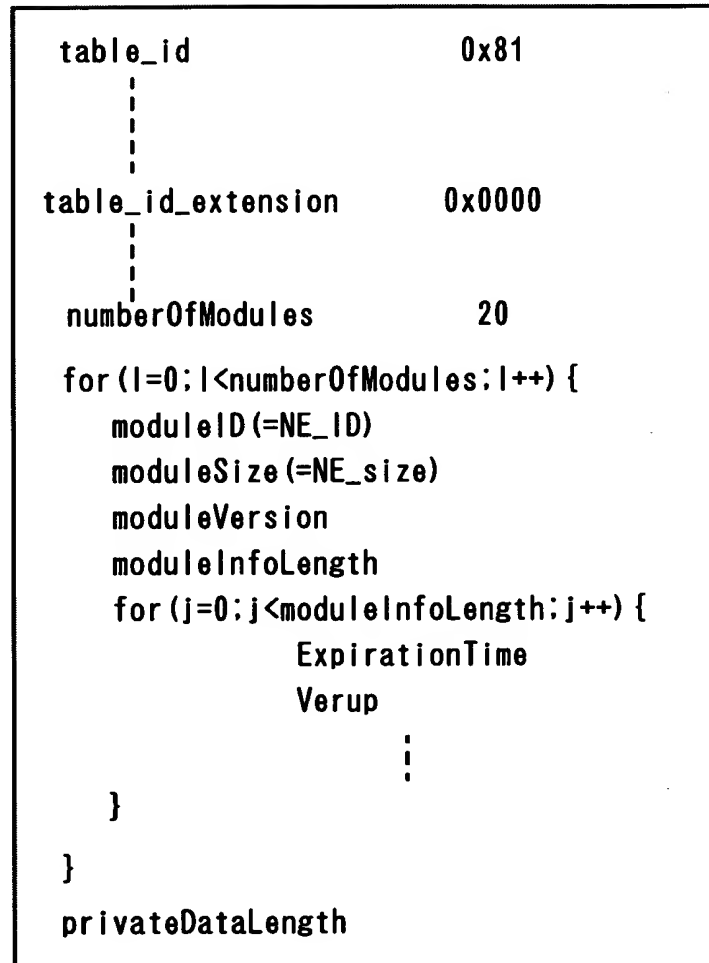


FIG.46

VET_D I I

